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# TABULÆ SINUUM

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ATQUE

# TANGENTIUM

TAM NATURALIUM,

QUAM ARTIFICIALIUM,

CAR. UNA CUM RAV.

*LOGARITHMIS NUMERORUM VULGARIUM AB 1 USQUE AD 10000.*

NUMERIS QUADRATIS

AC CUBICIS AB I. USQUE

AD 1000.

EDIDIT, PRÆFATUS EST ET REGULAM UNIVERSALEM SOLVENDI OMNIA TRIANGULA TAM PLANA, QUAM SPHÆRICA PRÆMISIT

CHRISTIAN. WOLFIUS,

CONSILIARIUS AULICUS HASSIACUS, IN ACADEMIA MARBURGENSI MATHEMATUM ET PHILOS. PROFESS PRIMARIUS, NEC NON PETROPOLITANUS HONORARIUS SOCIETATUM REGIARUM BRITANNICÆ ATQUE BORUSSICÆ SODALIS.

*FRANCOFURTI & LIPSIÆ,*

IMPENSIS IN OFFICINA RENGERIANA

AN. MDCCXXVIII.

1728

57/57, 2, 57.

# Uſus Tabularum.

§. 1.

IN Trigonometria ex datis tribus partibus trianguli ſive plani, ſive Sphærici inveniuntur tres reliquæ, argumentando a ſinibus & tangentibus angulorum ad latera in rectilineis, vel ad ſinus & tangentes laterum in ſphæricis. Unde ſinuum & tangentium tabulis ad calculum trigonometricum abſolvendum opus habemus.

§. 2.

Eſt autem anguli ACD *Sinus* AD dimidium chordæ AB, ſubtendentis arcum cognominem menſuræ AE Fig. 1.

anguli ACD duplum. *Cosinus* vero AG est sinus anguli ACH; qui & alterius ACD complementum ad quadrantem seu gradus nonaginta.

§. 3.

Ejusdem anguli ACD *Tangens* est recta EF radio EC ad angulum rectum insistens & secanti FC in F occurrens. *Cotangens* vero vocatur tangens anguli ACH, qui est alterius ad 90° complementum.

§. 4.

Radius EC, quo describitur mensura anguli AE, dicitur *Sinus totus*, quia omnium sinuum maximus & reliqui per ejus partes exprimuntur.

§. 5.

Nimirum in *Canone Sinuum atque tangentium* reperitur, quot ejusmodi partes singulis respondeant tam sinibus, quam tangentibus, qualium radius seu sinus totus est 10000000.

§. 6.

Cum problemata omnia Trigonometriæ tam planæ, quam sphæricæ,

sinu-

*sinuum atque tangentium* ope resolvi possint; *Canon* eorum sufficere poterat Trigonometris. Enimvero quoniam molesta admodum est per numeros grandiores multiplicatio atque divisio; in ejus locum successit *Canon* alius *sinuum & tangentium artificialium* seu *Logarithmorum*: Quorum numerorum ea est vis, ut multiplicationem in additionem; divisionem in subtractionem mutent. De ipsorum natura agimus in elementis nostris: in quibus & canonis utriusque sinuum & tangentium constructio edocetur.

§. 7.

Enimvero si in computo trigonometrico sinibus atque tangentibus artificialibus utamur; per eosdem numeros artificiales seu logarithmos etiam exprimenda sunt latera triangulorum rectilineorum. Ea fini conditus est *Canon Logarithmorum* pro numeris vulgaribus.

§. 8.

Ut igitur appareat, quomodo per

Canones Logarithmorum tria tam ſphærica, quam plana reſolvitur; primum de triangulis rectangulis, poſtea de obliquangulis paucis differemus.

§. 9.

In omni triangulo rectangulo præter angulum rectum, ad quem hic Fig. 2 & 3. non reſpicimus, quinque ſunt partes, nempe duo anguli obliqui A & C, que tria latera AB, AC, BC. Ex in omni caſu duæ dantur, tertia quæritur. E. gr. Datur hypothenuſa A cum angulo obliquo A: quæritur crus huic oppoſitum BC. Quodſi ſtum harum partium conſideres; erunt una earum media, duæ reliquæ utrinque poſitæ vel immediate ipſi adjacent, vel ab ea parte utrinque interjacente ſeparantur. E. gr. In dato caſu BC eſt pars media; AC & A ſunt extremæ. Iſta a media removetur angulo C; hoc vero crure AB: anguli enim recti (ut jam monui) nullam hic habetur ratio. Contra ſi dentur crura BC & AB, quæratur angulus A; pars media eſt crus AB, extremæ A & CB

eidem

eidem adjacent. Partes adjacentes mediæ vocabimus *extremas conjunctas*; alteras vero *extremas ſejunctas*.

§. 10.

Primo igitur omnium loco partibus in problemate propoſito occurrentibus hac ratione diſtinguendis aſſuefieri debent Trigonometriæ tyrones: quo facto omne problema de triangulis rectangulis ſive ſphæricis, ſive planis promptiſſime ſolvent per hanc regulam univerſalem.

SINUS TOTUS CUM COSINU PARTIS MEDIÆ ÆQUATUR SINIBUS SEJUNCTARUM ET COTANGENTIBUS CONJUNCTARUM.

modo notent, in triangulis ſphæricis pro cruribus AB & BC aſſumi eorum complementa ad quadrantem; in planis pro ſinibus & tangentibus laterum ipſa latera.

§. 11.

Ponamus e. gr. dari hypothenuſam AC cum angulo adjacente A pro

crure oppoſito &c. Cum BC ſit *p media*, AC & A ſint *ſejunctæ*; erit regulam noſtram *ſinus totus cum ſinu complementi cruris BC, hoc eſt, ſinu ipſius cruris BC, æqualis ſinibus hypothenuſæ AC & anguli obliqui*. Quare ſi triangulum fuerit ſphæricum a ſinibus hypothenuſæ *AC* & angu obliqui dati ſubtrahitur ſinus totus ut relinquatur ſinus cruris *BC*. Quod ſi vero triangulum rectilineum fuerit, ab hypothenuſa *AC* & ſinu angul A ſubtrahitur ſinus totus, ut relinquatur latus *BC*.

§. 12.

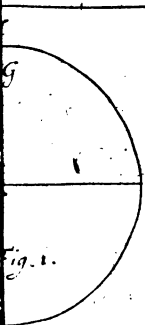
Uſus regulæ admodum facilitatur, ſi in dato quolibet caſu per æquationem Analyſtarum more exprimatur: nudus enim conſpectus ſtatim edocet, quid fieri debeat. E. gr. in allato exemplo.

Rad. + Sin. *BC* = Sin. *AC* + Sin. *A*. Quare ut habeatur ſinus artificialis ipſius *BC*, ſubtrahendum eſſe a ſumma ſinuum artificialium *AC* & *A* radium ſeu ſinum totum; æquationem intuenti ſtatim apparet.

§. 13.

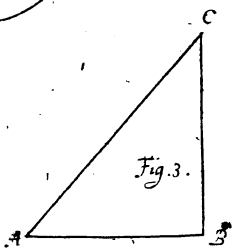
§. I

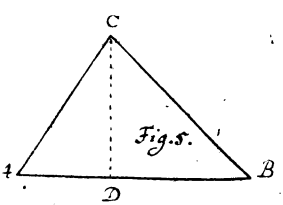
Eadem regula a
rum obliquangulor
unico excepto, si i
demisso perpendicul
*C* in latus ipsi opp
vantur. Enimvero
calculus in quibusda
sibus citra necessita
deret, sequentia ad
sultum est.

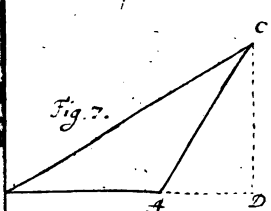



§. I

Tenendum nimi
*angulo spherico esse sin*
*no ipsa latera sinibus*
*rum proportionalia*,
rithmis uti volueris,
*cum sinu lateris adjace*
*nui anguli alterius cum*
*adjacentis*. Per han
triangulo sive plano,
ve rectangulo, sive o
tis duobus lateribus
rum opposito, inven
ri oppositus; datis du
latere uni eorum opp
situm alteri.



§. 15.

Fig. 4. & 5. 6. & 7. In reliquis caſibus reſoluto triangulo obliquangulo in duo rectangula ope perpendiculi *DC*, quæritur per regulam univerſalem (§. 9.) ſegmentum baſis *AB* unum *AD*, unde ſubtracto *AD* ex *AB* vel eidem addito habetur *DB*. Quo facto ope regulæ ex univerſali fluentis,

PARS MEDIA IN PRIMO TRIANGULO CUM EXTREMA IN SECUNDO ÆQUALIS EST PARTI MEDIÆ IN SECUNDO CUM EXTREMA IN PRIMO.

Habetur autem pro extrema parte altera in utroque triangulo perpendiculum DC, quod adeo quæri per regulam univerſalem neceſſe non eſt. Ceterum ex eadem regula univerſali apparet, utrum tangentes, an ſinus partium mediarum & extremarum aſſumi debeant.

§. 16.

Ponamus e. gr. in triangulo *ACB* dari angulum *A* cum cruribus *AC* & *AB* pro angulo *B*. Cum in triangulo *ACD* ad *D* rectangulo *A* ſit pars media, *AC* & *AD* ſint partes conjunctæ; erit

erit per regulam universalem *Sinus totus cum Cosinu anguli A aqualis cotangenti hypothenusæ AC & cotangenti complementi, hoc est tangenti cruris AD.* Invenitur adeo *AD*, si a summa sinus totius & cosinu anguli *A* subtrahatur cotangens hypothenusæ *AC*. Segmentum *AD* si porro subducatur ex crure *AB* dato; relinquitur segmentum alterum *DB*. Jam si *DC* sumatur pro parte una extrema in utroque triangulo, erit in primo *ACD* crus *AD* pars media, angulus *A* extrema conjuncta; in secundo *DCB* pars media *DB* & extrema itidem conjuncta angulus *B*. Utendum est ergo cotangentibus extremarum vi regulæ universalis. Et per §. *14. sinus segmenti AD cum cotangente anguli B est aqualis sinui segmenti alterius DB cum cotangente anguli A.* Ut igitur reperiatur angulus B, subtrahendus est sinus segmenti AD ab aggregato sinus segmenti alterius *DB* & cotangentis anguli A.

§. 17.

Denique datis tribus lateribus in angulo obliquangulo *ACB* invenitur angulus *A*; si demisso ex *C* perpendiculo *DC* inferatur: *Ut tangens dimidiæ ba-* Fig. 4.

*sis*

*sis AB ad tangentem semisumma laterum AC & BC: ita tangens semidifferentiæ laterum ad tangentem semidifferentiæ segmentorum AD & DB.* Inventa sic semi differentia si subducatur a dimidia basi *AB*, relinquitur segmentum minus *AD*; si addatur, prodit majus *DB*. Datis jam in triangulo *ACD* ad *D* rectangulo crure *AD* cum hypothenusa *AC* invenitur angulus *A* per regulam universalem. Valet autem eadem regula pro triangulis rectilineis, si pro tangentibus sumantur ipsa latera.

§. 18.

Hic præcipuus tabularum Sinuum atque Tangentium artificialium una cum canone logarithmorum usus est; alios bene multos, sed isto rariores exponere nil attinet.

§. 19.

Tabulis vero numerorum Quadratorum & cubicorum potissimum utimur in extrahenda radice cubica & quadrata: Earum enim beneficio inveniuntur prima statim operatione tres radicis partes.

FINIS.

# PRÆFATIO.

TRigonometriam Aſtronomia peperit. Cum enim ad ſidera contemplanda animum appellerent viri ingentes & ſupra mortalium ſortem poſiti, quibus mentis oculo reliquis perſpicacius videre datum & virtus ſola in pretio erat; ſtatim agnoverunt, ſine triangulorum tam ſphæricorum, quam rectilineorum reſolutione nihil in Aſtronomia præclari cognoſci poſſe. Hinc *Hipparchus Rhodius*, cujus ingentia in Aſtronomiam merita & veneranda olim celebravit antiquitas, & ſeri ſuſpicient nepotes, quamdiu veritati ac virtuti pretium ſtatuetur, ſubtenſarum in circulo doctrinam, narrante *Theone*, libris duodecim tractavit & ex iis *Ptolemæus* libro primo Almageſti inſeruit, quæ ad libros ſubſequentes intelligendos, neceſſaria erant. Veteres nimirum ab angulis ad latera mediantibus arcuum circularium ſubtenſis argumentabantur &, quem-

admodum ex *Ptolemæi* Almageſto liquet, radium in 60. partes æquales ſeu gradus, ſingulos vero gradus in ſua ſcrupula prima & ſecunda ſubdividebant. In iſtiusmodi ſcrupulis Canonem ſubtenſarum ad ſingulos gradus dimidios ſupputavit *Ptolemæus:* quem ad ſingula minuta prima extendit *Orontius Finæus*, ſub initium ſeculi decimi ſexti Pariſiis Mathematum Profeſſor Regius. Enimvero jam antecedente ſeculo vir præclaris in Matheſin, Aſtronomiam præſertim, meritis illuſtris, *Johannes Regiomontanus*, canonem triangulorum præſtantiorem condiderat. Cum enim *Saraceni* primi conſideraſſent, ſemiſſes ſubtenſarum eandem inter ſe rationem habere, quæ ſubtenſarum integrarum exiſtit, hincque per minores numeros facilitari computum; ſinus in Trigonometriam introduxerunt, eorum tamen rationem ad radium in ſcrupulis ſexageſimis cum *Ptolemæo* æſtimantes. *Regiomontanus* itaque ipſos ſecutus ſinus ſubtenſis prætulit & radio primum 60000000. partes tribuit, ut fractiones ſexagenarias evitaret; mox vero advertens commodiorem multo fore triangulorum canonem, ſi radius 10000000. partium conſti-

ſtituatur, novum condere haud piguit virum induſtrium, in quo ſinus ac ſingula minuta per fractiones radii decimales exprimuntur. Idem *Regiomontanus* Tabulam adhuc aliam confecit, quam *fœcundam* appellavit, & in qua coſinus quilibet iſtiusmodi partibus cenſetur, qualium ſinus eſt 100000000. *Immo Ioachimus Rheticus* radium quoque AC talibus particulis expreſſit, quales coſinuum alter AD vel DC continet 10000000. Enimvero cum hac ratione Canon triangulorum nimis prolixus evadat, prout opus Palatinum de triangulis a *Rhetico* cœptum, a *Valentino Ottone* ad umbilicum perductum evolventibus manifeſtum redditur, his prolixitatibus ſuperſedentes recentiores ſolo Canone ſinuum in iſtiusmodi particulis ſupputatorum, qualium radius eſt 100000000. utuntur, propter compendia tamen calculi in quibusdam trigonometriæ caſibus, tangentibus inſuper & ſecantibus in eundem relatis. Immo *Maginus* ipſos ſinus verſos addidit. Ceterum canonem triangulorum ad dena ſecunda extendit *Rheticus*; pro ſingulis ſecundis ſinus, primi & poſtremi gradus exhibet *Pitiſcus* in magno canone *Rhetici*, quem Fig. 1.

ipſe edidit. Novam plane faciem triangulorum Canoni induit *Johannes Neperus* Baro Merchiſtonii, Scotus, cum ſinibus & tangentibus naturalibus alios artificiales ſubſtituit anno 1614, quos logarithmos appellat, aſſumto pro logarithmo ſinus totius, ſeu radii 0, ut adeo creſcentibus ſinibus logarithmi decreſcerent. Hunc Canonem, quem *Mirificum* vocat ingenioſiſſimus Autor, ad dena ſecunda extendit *Benjaminus Urſinus*. Quamvis vero non ſine ratione logarithmum ſinus totius 0 fecerat *Neperus*, ut ſcilicet in reſolutione triangulorum rectangulorum nulla additione aut ſubtractione opus eſſet, quoties ſinus totus vel attendus, vel ſubtrahendus: ipſe tamen poſtea animadvertit, multo commodiorem fore logarithmorum formam, ſi logarithmus unitatis ſit 0 adeoque creſcentibus numeris creſcant etiam eorum logarithmi. Ex ejus igitur conſilio *Henricus Briggius*, in Academia Oxonienſi Geometriæ Profeſſor, Canonem logarithmorum novum pro numeris vulgaribus ab 1. ad 20000. & a 90000. ad 100000. cum chiliade ſupernumeraria conſtruxit & anno 1624. cum Arithmetica Logarithmica edidit:

quam

quam deinde anno 1628. *Adrianus Vlacq* recudi fecit, ſuppletis ipſius opera chiliadibus a 20000. ad 90000, ita ut 100. chiliadum logarithmi cum una ſupernumeraria habeantur. Equidem *Briggius* ſinuum quoque & tangentium logarithmos novos computaverat pro ſingulis gradibus eorumque partibus centeſimis; ſed mors prohibuit, quo minus eos ederet. Publicavit tamen poſtea hunc canonem A. 1633. *Henricus Gelibrand* in Trigonometria Britannica. Enimvero cum fractiones decimales graduum nondum ſint receptæ a Mathematicis; *Adrianus Vlaccus* eodem anno alium addidit triangulorum canonem logarithmicum ad dena ſcrupula ſecunda conſtructum. Ad ſingula ſecunda eundem extendit vir & generis proſapia & multa eruditione illuſtris *Læſerus*, Eques Miſnicus; ſed præmatura morte præpeditus operi ad umbilicum fere perducto ſupremam manum imponere non potuit. Quodſi tamen ſit, qui opus multi laboris perficere ac luci publicæ exponere velit; orbi erudito illud non invidebunt hæredes. Nos more conſueto canonem ſinuum & tangentium artificialium *Vlacci* ad minuta prima reduximus

& tres notas dextimas reſecuimus, ita tamen ut notam ultimam unitate augeremus, ſiquidem reſectæ ad 550. & ultra aſſurgerent. Et juxta hunc magnum Canonem *Vlacci* Canonem noſtrum primum correximus; poſtea cum aliis editionibus bene multis contulimus, ut ſi qua differentia occurreret, tum beneficio differentiarum logarithmicarum a *Vlacco* exhibitarum, tum juxta methodum ab eodem ſub finem præfationis traditam, detegere poſſemus, in qua editione lateat error. Canonem logarithmorum pro numeris vulgaribus ex *Briggii* Arithmetica Logarithmica deſcripſimus & ut ante tres notas dextimas abjecimus. In ejus correctione eadem induſtria eodemque modo uſi ſumus, quibus in logarithmis ſinuum & tangentium nos uſos eſſe diximus. Canonem ſinuum & tangentium artificialium a Canone naturalium ſejunximus, ut coſinus & cotangentes in eadem pagina collocari potuerint, adeoque invento ſinu coſinus quoque ſtatim in oculos incurreret nec quærenti ullum tædium faceſſeret. In Trigonometria equidem ſinibus ac tangentibus naturalibus carere poſſumus: quoniam tamen

in

in aliis casibus multus ejus est usus & in nostris quoque Elementis Matheseos universæ ad eundem hinc inde provocamus; eum prorsus omitti nefas duximus. Eum enim in finem tabulas has edimus, ut elementis nostris jungantur, cum illarum in his multis sit usus. Quamobrem etiam tabulam numerorum quadratorum & cubicorum logarithmis subjunximus, ut tam compositioni, quam resolutioni quadratorum & cubicorum numerorum inserviant, quibus in multis locis elementorum nostrorum opus habemus. Et quoniam studium trigonometriæ, præsertim sphæricæ, ob multitudinem præceptorum fugiunt tyrones; ideo unicam regulam exhibere libuit, per quam (paucis quibusdam in pauciſſimis casibus superadditis) omnia problemata tam trigonometriæ planæ quam sphæricæ unica constante ratione solvuntur, ut adeo nunc manifestum fit non majores in trigonometria sphærica, quam plana difficultates extare. Dudum *Neperus* cum canone suo mirifico regulam catholicam resolvendi triangula sphærica rectangula publicavit: sed nescio qui factum fuerit, ut nostris præsertim in oris ejus memoria pæne obliterata fuerit.

Pri-

Primum hujus regulæ indicium mihi præbuit *Cl. Cruger us*, Mathematum in Lycæo Bremensi Professor (id quod gratus hac occasione prædico;) sed cum nec *Neperi* canon mirificus, nec *Norwoodi* Trigonometria, quam eandem regulam explicasse ac demonstrasse postea reperi, tum ad manus esset; ipsemet ad eam eruendam me accingebam ea methodo usus, quam in Elementis meis Matheseos reperit lector benevolus, invenique regulam a *Neperiana* parum abludentem. Cumque ulterius de analogia trigonometriæ planæ ac sphæricæ cogitarem; non sine insigni voluptate expertus sum, non peculiaribus regulis opus esse in trigonometria plana & sphærica, sed in utraque unam eandemque sufficere. Retinui autem regulam ut a me inventa fuit, quod per eam analogia inter trigonometriam planam & sphæricam clarior appareat, quam per *Nepernam*, neque ulli refragabor, qui *Nepernam* eum in finem a me tantum immutatam esse asseveraverit. Aliis enim prodesse cupio: nec aliud præmium requiro, quam ut intelligam, me hunc scopum assecutum esse.

# CANON TRIANGULORUM,

Continens

# LOGARITHMOS SINUUM ET TANGENTIVM

AD SINGULA MINUTA PRIMA:

| Minut. | 0. Grad. | | Minut. | 89. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 0 | 0 | 60 | 10.0000000 | Infinit. |
| 1 | 6.4637261 | 6.4637261 | 59 | 9.9999999 | 13.5362739 |
| 2 | 6.7647561 | 6.7647562 | 58 | 9.9999999 | 13.2352438 |
| 3 | 6.9408473 | 6.9408475 | 57 | 9.9999998 | 13.0591525 |
| 4 | 7.0657860 | 7.0657863 | 56 | 9.9999997 | 12.9342137 |
| 5 | 7.1626960 | 7.1626964 | 55 | 9.9999995 | 12.8373036 |
| 6 | 7.2418771 | 7.2418778 | 54 | 9.9999993 | 12.7581222 |
| 7 | 7.3088239 | 7.3088248 | 53 | 9.9999991 | 12.6911752 |
| 8 | 7.3668157 | 7.3668169 | 52 | 9.9999988 | 12.6331831 |
| 9 | 7.4179681 | 7.4179696 | 51 | 9.9999985 | 12.5820304 |
| 10 | 7.4637255 | 7.4637273 | 50 | 9.9999982 | 12.5362727 |
| 11 | 7.5051181 | 7.5051203 | 49 | 9.9999978 | 12.4948797 |
| 12 | 7.5429065 | 7.5429091 | 48 | 9.9999974 | 12.4570909 |
| 13 | 7.5776684 | 7.5776715 | 47 | 9.9999969 | 12.4223285 |
| 14 | 7.6098530 | 7.6098566 | 46 | 9.9999964 | 12.3901434 |
| 15 | 7.6398160 | 7.6398201 | 45 | 9.9999959 | 12.3601799 |
| 16 | 7.6678445 | 7.6678492 | 44 | 9.9999953 | 12.3321508 |
| 17 | 7.6941733 | 7.6941786 | 43 | 9.9999947 | 12.3058214 |
| 18 | 7.7189966 | 7.7190026 | 42 | 9.9999940 | 12.2809974 |
| 19 | 7.7424775 | 7.7424841 | 41 | 9.9999934 | 12.2575159 |
| 20 | 7.7647537 | 7.7647610 | 40 | 9.9999927 | 12.2352390 |
| 21 | 7.7859427 | 7.7859508 | 39 | 9.9999919 | 12.2140492 |
| 22 | 7.8061458 | 7.8061547 | 38 | 9.9999911 | 12.1938453 |
| 23 | 7.8254507 | 7.8254604 | 37 | 9.9999903 | 12.1745396 |
| 24 | 7.8439338 | 7.8439444 | 36 | 9.9999894 | 12.1560556 |
| 25 | 7.8616623 | 7.8616738 | 35 | 9.9999885 | 12.1383262 |
| 26 | 7.8786953 | 7.8787077 | 34 | 9.9999876 | 12.1212923 |
| 27 | 7.8950854 | 7.8950988 | 33 | 9.9999866 | 12.1049012 |
| 28 | 7.9108793 | 7.9108938 | 32 | 9.9999856 | 12.0891062 |
| 29 | 7.9261190 | 7.9261344 | 31 | 9.9999845 | 12.0738656 |
| 30 | 7.9408419 | 7.9408584 | 30 | 9.9999835 | 12.0591416 |

| Minut. | 0. Grad. | | Minut. | 89. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 7.9408419 | 7.9408584 | 30 | 9.9999835 | 12.0591416 |
| 31 | 7.9550819 | 7.9550996 | 29 | 9.9999823 | 12.0449004 |
| 32 | 7.9688698 | 7.9688886 | 28 | 9.9999812 | 12.0311114 |
| 33 | 7.9822334 | 7.9822534 | 27 | 9.9999800 | 12.0177466 |
| 34 | 7.9951980 | 7.9952192 | 26 | 9.9999788 | 12.0047808 |
| 35 | 8.0077867 | 8.0078092 | 25 | 9.9999775 | 11.9921908 |
| 36 | 8.0200207 | 8.0200445 | 24 | 9.9999762 | 11.9799555 |
| 37 | 8.0319195 | 8.0319446 | 23 | 9.9999748 | 11.9680554 |
| 38 | 8.0435009 | 8.0435274 | 22 | 9.9999735 | 11.9564726 |
| 39 | 8.0547814 | 8.0548094 | 21 | 9.9999721 | 11.9451906 |
| 40 | 8.0657763 | 8.0658057 | 20 | 9.9999706 | 11.9341943 |
| 41 | 8.0764997 | 8.0765306 | 19 | 9.9999691 | 11.9234694 |
| 42 | 8.0869646 | 8.0869970 | 18 | 9.9999676 | 11.9130030 |
| 43 | 8.0971832 | 8.0972172 | 17 | 9.9999660 | 11.9027828 |
| 44 | 8.1071669 | 8.1072025 | 16 | 9.9999644 | 11.8927975 |
| 45 | 8.1169262 | 8.1169634 | 15 | 9.9999628 | 11.8830366 |
| 46 | 8.1264710 | 8.1265099 | 14 | 9.9999611 | 11.8734901 |
| 47 | 8.1358104 | 8.1358510 | 13 | 9.9999594 | 11.8641490 |
| 48 | 8.1449532 | 8.1449956 | 12 | 9.9999577 | 11.8550044 |
| 49 | 8.1539075 | 8.1539516 | 11 | 9.9999559 | 11.8460484 |
| 50 | 8.1626808 | 8.1627267 | 10 | 9.9999541 | 11.8372733 |
| 51 | 8.1712804 | 8.1713282 | 9 | 9.9999522 | 11.8286718 |
| 52 | 8.1797129 | 8.1797626 | 8 | 9.9999503 | 11.8202374 |
| 53 | 8.1879848 | 8.1880364 | 7 | 9.9999484 | 11.8119636 |
| 54 | 8.1961020 | 8.1961556 | 6 | 9.9999464 | 11.8038444 |
| 55 | 8.2040703 | 8.2041259 | 5 | 9.9999444 | 11.7958741 |
| 56 | 8.2118949 | 8.2119526 | 4 | 9.9999424 | 11.7880474 |
| 57 | 8.2195811 | 8.2196408 | 3 | 9.9999403 | 11.7803592 |
| 58 | 8.2271335 | 8.2271953 | 2 | 9.9999382 | 11.7728047 |
| 59 | 8.2345568 | 8.2346208 | 1 | 9.9999360 | 11.7653792 |
| 60 | 8.2418553 | 8.2419215 | 0 | 9.9999338 | 11.7580785 |

| Minut. | 1. Grad. | | Minut. | 88. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 8.2418553 | 8.2419215 | 60 | 9.9999338 | 11.7580785 |
| 1 | 8.2490332 | 8.2491015 | 59 | 9.9999316 | 11.7508985 |
| 2 | 8.2560943 | 8.2561649 | 58 | 9.9999294 | 11.7438351 |
| 3 | 8.2630424 | 8.2631153 | 57 | 9.9999271 | 11.7368847 |
| 4 | 8.2698810 | 8.2699563 | 56 | 9.9999247 | 11.7300437 |
| 5 | 8.2766136 | 8.2766912 | 55 | 9.9999224 | 11.7233088 |
| 6 | 8.2832434 | 8.2833234 | 54 | 9.9999200 | 11.7166766 |
| 7 | 8.2897734 | 8.2898559 | 53 | 9.9999175 | 11.7101441 |
| 8 | 8.2962067 | 8.2962917 | 52 | 9.9999150 | 11.7037083 |
| 9 | 8.3025460 | 8.3026335 | 51 | 9.9999125 | 11.6973665 |
| 10 | 8.3087941 | 8.3088842 | 50 | 9.9999100 | 11.6911158 |
| 11 | 8.3149536 | 8.3150462 | 49 | 9.9999074 | 11.6849538 |
| 12 | 8.3210269 | 8.3211221 | 48 | 9.9999047 | 11.6788779 |
| 13 | 8.3270163 | 8.3271143 | 47 | 9.9999021 | 11.6728857 |
| 14 | 8.3329243 | 8.3330249 | 46 | 9.9998994 | 11.6669751 |
| 15 | 8.3387529 | 8.3388563 | 45 | 9.9998966 | 11.6611437 |
| 16 | 8.3445043 | 8.3446105 | 44 | 9.9998939 | 11.6553895 |
| 17 | 8.3501805 | 8.3502895 | 43 | 9.9998911 | 11.6497105 |
| 18 | 8.3557835 | 8.3558953 | 42 | 9.9998882 | 11.6441047 |
| 19 | 8.3613150 | 8.3614297 | 41 | 9.9998853 | 11.6385703 |
| 20 | 8.3667769 | 8.3668945 | 40 | 9.9998824 | 11.6331055 |
| 21 | 8.3721710 | 8.3722915 | 39 | 9.9998794 | 11.6277085 |
| 22 | 8.3774988 | 8.3776223 | 38 | 9.9998764 | 11.6223777 |
| 23 | 8.3827620 | 8.3828886 | 37 | 9.9998734 | 11.6171114 |
| 24 | 8.3879622 | 8.3880918 | 36 | 9.9998703 | 11.6119082 |
| 25 | 8.3931008 | 8.3932336 | 35 | 9.9998672 | 11.6067664 |
| 26 | 8.3981793 | 8.3983152 | 34 | 9.9998641 | 11.6016848 |
| 27 | 8.4031990 | 8.4033381 | 33 | 9.9998609 | 11.5966619 |
| 28 | 8.4081614 | 8.4083037 | 32 | 9.9998577 | 11.5916963 |
| 29 | 8.4130676 | 8.4132132 | 31 | 9.9998544 | 11.5867868 |
| 30 | 8.4179190 | 8.4180679 | 30 | 9.9998512 | 11.5819321 |

| Minut. | 1. Grad. | | Minut. | 88. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 8.4179190 | 8.4180679 | 30 | 9.9998512 | 11.5819321 |
| 31 | 8.4227168 | 8.4228690 | 29 | 9.9998478 | 11.5771310 |
| 32 | 8.4274621 | 8.4276176 | 28 | 9.9998445 | 11.5723824 |
| 33 | 8.4321561 | 8.4323150 | 27 | 9.9998411 | 11.5676850 |
| 34 | 8.4367999 | 8.4369622 | 26 | 9.9998376 | 11.5630378 |
| 35 | 8.4413944 | 8.4415603 | 25 | 9.9998342 | 11.5584397 |
| 36 | 8.4459409 | 8.4461103 | 24 | 9.9998306 | 11.5538897 |
| 37 | 8.4504402 | 8.4506131 | 23 | 9.9998271 | 11.5493869 |
| 38 | 8.4548934 | 8.4550699 | 22 | 9.9998235 | 11.5449301 |
| 39 | 8.4593013 | 8.4594814 | 21 | 9.9998199 | 11.5405186 |
| 40 | 8.4636649 | 8.4638486 | 20 | 9.9998162 | 11.5361514 |
| 41 | 8.4679850 | 8.4681725 | 19 | 9.9998125 | 11.5318275 |
| 42 | 8.4722626 | 8.4724538 | 18 | 9.9998088 | 11.5275462 |
| 43 | 8.4764984 | 8.4766933 | 17 | 9.9998050 | 11.5233067 |
| 44 | 8.4806932 | 8.4808920 | 16 | 9.9998012 | 11.5191080 |
| 45 | 8.4848479 | 8.4850505 | 15 | 9.9997974 | 11.5149495 |
| 46 | 8.4889632 | 8.4891696 | 14 | 9.9997935 | 11.5108304 |
| 47 | 8.4930398 | 8.4932502 | 13 | 9.9997896 | 11.5067498 |
| 48 | 8.4970784 | 8.4972928 | 12 | 9.9997856 | 11.5027072 |
| 49 | 8.5010798 | 8.5012982 | 11 | 9.9997817 | 11.4987018 |
| 50 | 8.5050447 | 8.5052671 | 10 | 9.9997776 | 11.4947329 |
| 51 | 8.5089736 | 8.5092001 | 9 | 9.9997736 | 11.4907999 |
| 52 | 8.5128673 | 8.5130978 | 8 | 9.9997695 | 11.4869022 |
| 53 | 8.5167264 | 8.5169610 | 7 | 9.9997653 | 11.4830390 |
| 54 | 8.5205514 | 8.5207902 | 6 | 9.9997612 | 11.4792098 |
| 55 | 8.5243430 | 8.5245860 | 5 | 9.9997570 | 11.4754140 |
| 56 | 8.5281017 | 8.5283490 | 4 | 9.9997527 | 11.4716510 |
| 57 | 8.5318281 | 8.5320797 | 3 | 9.9997484 | 11.4679203 |
| 58 | 8.5355228 | 8.5357787 | 2 | 9.9997441 | 11.4642213 |
| 59 | 8.5391863 | 8.5394466 | 1 | 9.9997398 | 11.4605534 |
| 60 | 8.5428192 | 8.5430838 | 0 | 9.9997354 | 11.4569162 |

| Minut. | 2. Grad. | | Minut. | 87. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 8.5428192 | 8.5430838 | 60 | 9.9997354 | 11.4569162 |
| 1 | 8.5464218 | 8.5466909 | 59 | 9.9997309 | 11.4533091 |
| 2 | 8.5499948 | 8.5502683 | 58 | 9.9997265 | 11.4497317 |
| 3 | 8.5535386 | 8.5538166 | 57 | 9.9997220 | 11.4461834 |
| 4 | 8.5570536 | 8.5573362 | 56 | 9.9997174 | 11.4426638 |
| 5 | 8.5605404 | 8.5608276 | 55 | 9.9997128 | 11.4391724 |
| 6 | 8.5639994 | 8.5642912 | 54 | 9.9997082 | 11.4357088 |
| 7 | 8.5674310 | 8.5677275 | 53 | 9.9997036 | 11.4322725 |
| 8 | 8.5708357 | 8.5711368 | 52 | 9.9996989 | 11.4288632 |
| 9 | 8.5742139 | 8.5745197 | 51 | 9.9996942 | 11.4254803 |
| 10 | 8.5775660 | 8.5778766 | 50 | 9.9996894 | 11.4221234 |
| 11 | 8.5808923 | 8.5812077 | 49 | 9.9996846 | 11.4187923 |
| 12 | 8.5841933 | 8.5845136 | 48 | 9.9996798 | 11.4154864 |
| 13 | 8.5874694 | 8.5877945 | 47 | 9.9996749 | 11.4122055 |
| 14 | 8.5907209 | 8.5910509 | 46 | 9.9996700 | 11.4089491 |
| 15 | 8.5939483 | 8.5942832 | 45 | 9.9996650 | 11.4057168 |
| 16 | 8.5971517 | 8.5974917 | 44 | 9.9996601 | 11.4025083 |
| 17 | 8.6003317 | 8.6006767 | 43 | 9.9996550 | 11.3993233 |
| 18 | 8.6034886 | 8.6038386 | 42 | 9.9996500 | 11.3961614 |
| 19 | 8.6066226 | 8.6069777 | 41 | 9.9996449 | 11.3930223 |
| 20 | 8.6097341 | 8.6100943 | 40 | 9.9996398 | 11.3899057 |
| 21 | 8.6128235 | 8.6131889 | 39 | 9.9996346 | 11.3868111 |
| 22 | 8.6158910 | 8.6162616 | 38 | 9.9996294 | 11.3837384 |
| 23 | 8.6189369 | 8.6193127 | 37 | 9.9996242 | 11.3806873 |
| 24 | 8.6219616 | 8.6223427 | 36 | 9.9996189 | 11.3776573 |
| 25 | 8.6249653 | 8.6253518 | 35 | 9.9996136 | 11.3746482 |
| 26 | 8.6279484 | 8.6283402 | 34 | 9.9996082 | 11.3716598 |
| 27 | 8.6309111 | 8.6313083 | 33 | 9.9996028 | 11.3686917 |
| 28 | 8.6338537 | 8.6342563 | 32 | 9.9995974 | 11.3657437 |
| 29 | 8.6367764 | 8.6371845 | 31 | 9.9995919 | 11.3628155 |
| 30 | 8.6396796 | 8.6400931 | 30 | 9.9995865 | 11.3599059 |

| Minut. | 2. Grad. | | Minut. | 87. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang |
| 30 | 8.6396796 | 8.6400931 | 30 | 9.9995865 | 11.3599065 |
| 31 | 8.6425634 | 8.6429825 | 29 | 9.9995809 | 11.3570175 |
| 32 | 8.6454282 | 8.6458528 | 28 | 9.9995753 | 11.3541472 |
| 33 | 8.6482742 | 8.6487044 | 27 | 9.9995697 | 11.3512956 |
| 34 | 8.6511016 | 8.6515375 | 26 | 9.9995641 | 11.3484625 |
| 35 | 8.6539107 | 8.6543522 | 25 | 9.9995584 | 11.3456478 |
| 36 | 8.6567017 | 8.6571490 | 24 | 9.9995527 | 11.3428510 |
| 37 | 8.6594748 | 8.6599279 | 23 | 9.9995469 | 11.3400721 |
| 38 | 8.6622303 | 8.6626891 | 22 | 9.9995411 | 11.3373109 |
| 39 | 8.6649684 | 8.6654331 | 21 | 9.9995353 | 11.3345669 |
| 40 | 8.6676893 | 8.6681598 | 20 | 9.9995295 | 11.3318402 |
| 41 | 8.6703932 | 8.6708697 | 19 | 9.9995236 | 11.3291303 |
| 42 | 8.6730804 | 8.6735628 | 18 | 9.9995176 | 11.3264372 |
| 43 | 8.6757510 | 8.6762393 | 17 | 9.9995116 | 11.3237607 |
| 44 | 8.6784052 | 8.6788996 | 16 | 9.9995056 | 11.3211004 |
| 45 | 8.6810433 | 8.6815437 | 15 | 9.9994996 | 11.3184563 |
| 46 | 8.6836654 | 8.6841719 | 14 | 9.9994935 | 11.3158281 |
| 47 | 8.6862718 | 8.6867844 | 13 | 9.9994874 | 11.3132156 |
| 48 | 8.6888625 | 8.6893813 | 12 | 9.9994812 | 11.3106187 |
| 49 | 8.6914379 | 8.6919629 | 11 | 9.9994750 | 11.3080371 |
| 50 | 8.6939980 | 8.6945292 | 10 | 9.9994688 | 11.3054708 |
| 51 | 8.6965431 | 8.6970806 | 9 | 9.9994625 | 11.3029194 |
| 52 | 8.6990734 | 8.6996172 | 8 | 9.9994562 | 11.3003828 |
| 53 | 8.7015889 | 8.7021390 | 7 | 9.9994498 | 11.2978610 |
| 54 | 8.7040899 | 8.7046465 | 6 | 9.9994435 | 11.2953535 |
| 55 | 8.7065766 | 8.7071395 | 5 | 9.9994370 | 11.2928605 |
| 56 | 8.7090490 | 8.7096185 | 4 | 9.9994306 | 11.2903815 |
| 57 | 8.7115075 | 8.7120834 | 3 | 9.9994241 | 11.2879166 |
| 58 | 8.7139520 | 8.7145345 | 2 | 9.9994176 | 11.2854655 |
| 59 | 8.7163829 | 8.7169719 | 1 | 9.9994110 | 11.2830281 |
| 60 | 8.7188002 | 8.7193958 | 0 | 9.9994044 | 11.2806042 |

| Minut. | 3. Grad. | | Minut. | 86. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 8.7188002 | 8.7193958 | 60 | 9.9994044 | 11.2806042 |
| 1 | 8.7212040 | 8.7218063 | 59 | 9.9993978 | 11.2781937 |
| 2 | 8.7235946 | 8.7242035 | 58 | 9.9993911 | 11.2757965 |
| 3 | 8.7259721 | 8.7265877 | 57 | 9.9993844 | 11.2734123 |
| 4 | 8.7283366 | 8.7289589 | 56 | 9.9993776 | 11.2710411 |
| 5 | 8.7306882 | 8.7313174 | 55 | 9.9993708 | 11.2686826 |
| 6 | 8.7330272 | 8.7336631 | 54 | 9.9993640 | 11.2663369 |
| 7 | 8.7353535 | 8.7359964 | 53 | 9.9993572 | 11.2640036 |
| 8 | 8.7376675 | 8.7383172 | 52 | 9.9993503 | 11.2616828 |
| 9 | 8.7399691 | 8.7406258 | 51 | 9.9993433 | 11.2593742 |
| 10 | 8.7422586 | 8.7429222 | 50 | 9.9993364 | 11.2570778 |
| 11 | 8.7445360 | 8.7452067 | 49 | 9.9993293 | 11.2547933 |
| 12 | 8.7468015 | 8.7474792 | 48 | 9.9993223 | 11.2525208 |
| 13 | 8.7490553 | 8.7497400 | 47 | 9.9993152 | 11.2502600 |
| 14 | 8.7512973 | 8.7519892 | 46 | 9.9993081 | 11.2480108 |
| 15 | 8.7535278 | 8.7542269 | 45 | 9.9993009 | 11.2457731 |
| 16 | 8.7557469 | 8.7564531 | 44 | 9.9992938 | 11.2435469 |
| 17 | 8.7579546 | 8.7586681 | 43 | 9.9992865 | 11.2413319 |
| 18 | 8.7601512 | 8.7608719 | 42 | 9.9992793 | 11.2391281 |
| 19 | 8.7623366 | 8.7630647 | 41 | 9.9992720 | 11.2369353 |
| 20 | 8.7645111 | 8.7652465 | 40 | 9.9992646 | 11.2347535 |
| 21 | 8.7666747 | 8.7674175 | 39 | 9.9992572 | 11.2325825 |
| 22 | 8.7688275 | 8.7695777 | 38 | 9.9992498 | 11.2304223 |
| 23 | 8.7709697 | 8.7717274 | 37 | 9.9992424 | 11.2282726 |
| 24 | 8.7731014 | 8.7738665 | 36 | 9.9992349 | 11.2261335 |
| 25 | 8.7752226 | 8.7759952 | 35 | 9.9992274 | 11.2240048 |
| 26 | 8.7773334 | 8.7781136 | 34 | 9.9992198 | 11.2218864 |
| 27 | 8.7794340 | 8.7802218 | 33 | 9.9992122 | 11.2197782 |
| 28 | 8.7815244 | 8.7823199 | 32 | 9.9992046 | 11.2176801 |
| 29 | 8.7836048 | 8.7844079 | 31 | 9.9991969 | 11.2155921 |
| 30 | 8.7856753 | 8.7864861 | 30 | 9.9991892 | 11.2135139 |

| Minut. | 3. Grad. | | Minut. | 86. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 8.7856753 | 8.7864861 | 30 | 9.9991892 | 11.2135139 |
| 31 | 8.7877359 | 8.7885544 | 29 | 9.9991815 | 11.2114456 |
| 32 | 8.7897867 | 8.7906130 | 28 | 9.9991737 | 11.2093870 |
| 33 | 8.7918278 | 8.7926620 | 27 | 9.9991659 | 11.2073380 |
| 34 | 8.7938594 | 8.7947014 | 26 | 9.9991580 | 11.2052986 |
| 35 | 8.7958814 | 8.7967313 | 25 | 9.9991501 | 11.2032687 |
| 36 | 8.7978941 | 8.7987519 | 24 | 9.9991422 | 11.2012481 |
| 37 | 8.7998974 | 8.8007632 | 23 | 9.9991342 | 11.1992368 |
| 38 | 8.8018915 | 8.8027653 | 22 | 9.9991262 | 11.1972347 |
| 39 | 8.8038764 | 8.8047583 | 21 | 9.9991182 | 11.1952417 |
| 40 | 8.8058523 | 8.8067422 | 20 | 9.9991101 | 11.1932578 |
| 41 | 8.8078192 | 8.8087172 | 19 | 9.9991020 | 11.1912828 |
| 42 | 8.8097772 | 8.8106834 | 18 | 9.9990938 | 11.1893166 |
| 43 | 8.8117264 | 8.8126407 | 17 | 9.9990856 | 11.1873593 |
| 44 | 8.8136668 | 8.8145894 | 16 | 9.9990774 | 11.1854106 |
| 45 | 8.8155985 | 8.8165294 | 15 | 9.9990691 | 11.1834706 |
| 46 | 8.8175217 | 8.8184608 | 14 | 9.9990608 | 11.1815392 |
| 47 | 8.8194363 | 8.8203838 | 13 | 9.9990525 | 11.1796162 |
| 48 | 8.8213425 | 8.8222984 | 12 | 9.9990441 | 11.1777016 |
| 49 | 8.8232404 | 8.8242046 | 11 | 9.9990357 | 11.1757954 |
| 50 | 8.8251299 | 8.8261026 | 10 | 9.9990273 | 11.1738974 |
| 51 | 8.8270112 | 8.8279924 | 9 | 9.9990188 | 11.1720076 |
| 52 | 8.8288844 | 8.8298741 | 8 | 9.9990103 | 11.1701259 |
| 53 | 8.8307495 | 8.8317478 | 7 | 9.9990017 | 11.1682522 |
| 54 | 8.8326066 | 8.8336134 | 6 | 9.9989931 | 11.1663866 |
| 55 | 8.8344557 | 8.8354712 | 5 | 9.9989845 | 11.1645288 |
| 56 | 8.8362969 | 8.8373211 | 4 | 9.9989758 | 11.1626789 |
| 57 | 8.8381304 | 8.8391633 | 3 | 9.9989671 | 11.1608367 |
| 58 | 8.8399561 | 8.8409977 | 2 | 9.9989584 | 11.1590023 |
| 59 | 8.8417741 | 8.8428245 | 1 | 9.9989496 | 11.1571755 |
| 60 | 8.8435845 | 8.8446437 | 0 | 9.9989408 | 11.1553563 |

| Minut. | 4. Grad. | | Minut. | 85. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 8.8435845 | 8.8446437 | 60 | 9.9989408 | 11.1553563 |
| 1 | 8.8453874 | 8.8464554 | 59 | 9.9989319 | 11.1535446 |
| 2 | 8.8471827 | 8.8482597 | 58 | 9.9989230 | 11.1517403 |
| 3 | 8.8489707 | 8.8500566 | 57 | 9.9989141 | 11.1499434 |
| 4 | 8.8507512 | 8.8518461 | 56 | 9.9989052 | 11.1481539 |
| 5 | 8.8525245 | 8.8536283 | 55 | 9.9988962 | 11.1463717 |
| 6 | 8.8542905 | 8.8554034 | 54 | 9.9988871 | 11.1445966 |
| 7 | 8.8560493 | 8.8571713 | 53 | 9.9988780 | 11.1428287 |
| 8 | 8.8578010 | 8.8589321 | 52 | 9.9988689 | 11.1410679 |
| 9 | 8.8595457 | 8.8606859 | 51 | 9.9988598 | 11.1393141 |
| 10 | 8.8612833 | 8.8624327 | 50 | 9.9988506 | 11.1375673 |
| 11 | 8.8630139 | 8.8641725 | 49 | 9.9988414 | 11.1358275 |
| 12 | 8.8647376 | 8.8659055 | 48 | 9.9988321 | 11.1340945 |
| 13 | 8.8664545 | 8.8676317 | 47 | 9.9988228 | 11.1323683 |
| 14 | 8.8681646 | 8.8693511 | 46 | 9.9988135 | 11.1306489 |
| 15 | 8.8698680 | 8.8710638 | 45 | 9.9988041 | 11.1289362 |
| 16 | 8.8715646 | 8.8727699 | 44 | 9.9987947 | 11.1272301 |
| 17 | 8.8732546 | 8.8744694 | 43 | 9.9987853 | 11.1255306 |
| 18 | 8.8749381 | 8.8761623 | 42 | 9.9987758 | 11.1238377 |
| 19 | 8.8766150 | 8.8778487 | 41 | 9.9987663 | 11.1221513 |
| 20 | 8.8782854 | 8.8795286 | 40 | 9.9987567 | 11.1204714 |
| 21 | 8.8799493 | 8.8812022 | 39 | 9.9987471 | 11.1187978 |
| 22 | 8.8816069 | 8.8828694 | 38 | 9.9987375 | 11.1171306 |
| 23 | 8.8832581 | 8.8845303 | 37 | 9.9987278 | 11.1154697 |
| 24 | 8.8849031 | 8.8861850 | 36 | 9.9987181 | 11.1138150 |
| 25 | 8.8865418 | 8.8878334 | 35 | 9.9987084 | 11.1121666 |
| 26 | 8.8881743 | 8.8894757 | 34 | 9.9986986 | 11.1105243 |
| 27 | 8.8898007 | 8.8911119 | 33 | 9.9986888 | 11.1088881 |
| 28 | 8.8914209 | 8.8927420 | 32 | 9.9986790 | 11.1072580 |
| 29 | 8.8930351 | 8.8943660 | 31 | 9.9986691 | 11.1056340 |
| 30 | 8.8946433 | 8.8959842 | 30 | 9.9986591 | 11.1040158 |

| Minut. | 4. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 8.8946433 | 8.8959842 |
| 31 | 8.8962455 | 8.8975963 |
| 32 | 8.8978418 | 8.8992026 |
| 33 | 8.8994322 | 8.9008030 |
| 34 | 8.9010168 | 8.9023977 |
| 35 | 8.9025955 | 8.9039866 |
| 36 | 8.9041685 | 8.9055697 |
| 37 | 8.9057358 | 8.9071477 |
| 38 | 8.9072975 | 8.9087190 |
| 39 | 8.9088535 | 8.9102853 |
| 40 | 8.9104039 | 8.9118460 |
| 41 | 8.9119487 | 8.9134012 |
| 42 | 8.9134881 | 8.9149509 |
| 43 | 8.9150219 | 8.9164952 |
| 44 | 8.9165504 | 8.9180340 |
| 45 | 8.9180734 | 8.9195675 |
| 46 | 8.9195911 | 8.9210957 |
| 47 | 8.9211034 | 8.9226186 |
| 48 | 8.9226105 | 8.9241363 |
| 49 | 8.9241123 | 8.9256487 |
| 50 | 8.9256089 | 8.9271560 |
| 51 | 8.9271003 | 8.9286581 |
| 52 | 8.9285866 | 8.9301552 |
| 53 | 8.9300678 | 8.9316471 |
| 54 | 8.9315439 | 8.9331340 |
| 55 | 8.9330150 | 8.9346160 |
| 56 | 8.9344811 | 8.9360929 |
| 57 | 8.9359422 | 8.9375650 |
| 58 | 8.9373983 | 8.9390321 |
| 59 | 8.9388496 | 8.9404944 |
| 60 | 8.9402960 | 8.9419518 |

| Minut. | 85. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9986591 | 11.1040158 |
| 29 | 9.9986492 | 11.1024037 |
| 28 | 9.9986392 | 11.1007974 |
| 27 | 9.9986292 | 11.0991970 |
| 26 | 9.9986191 | 11.0976023 |
| 25 | 9.9986090 | 11.0960134 |
| 24 | 9.9985988 | 11.0944303 |
| 23 | 9.9985886 | 11.0928528 |
| 22 | 9.9985784 | 11.0912810 |
| 21 | 9.9985682 | 11.0897147 |
| 20 | 9.9985579 | 11.0881540 |
| 19 | 9.9985475 | 11.0865988 |
| 18 | 9.9985372 | 11.0850491 |
| 17 | 9.9985268 | 11.0835048 |
| 16 | 9.9985163 | 11.0819660 |
| 15 | 9.9985058 | 11.0804325 |
| 14 | 9.9984953 | 11.0789043 |
| 13 | 9.9984848 | 11.0773814 |
| 12 | 9.9984742 | 11.0758637 |
| 11 | 9.9984636 | 11.0743513 |
| 10 | 9.9984529 | 11.0728440 |
| 9 | 9.9984422 | 11.0713419 |
| 8 | 9.9984315 | 11.0698448 |
| 7 | 9.9984207 | 11.0683529 |
| 6 | 9.9984099 | 11.0668660 |
| 5 | 9.9983990 | 11.0653840 |
| 4 | 9.9983881 | 11.0639071 |
| 3 | 9.9983772 | 11.0624350 |
| 2 | 9.9983663 | 11.0609679 |
| 1 | 9.9983553 | 11.0595056 |
| 0 | 9.9983442 | 11.0580482 |

| Minut. | 5. Grad. | | Minut. | 84. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 8.9402960 | 8.9419518 | 60 | 9.9983442 | 11.0580482 |
| 1 | 8.9417376 | 8.9434044 | 59 | 9.9983332 | 11.0565956 |
| 2 | 8.9431743 | 8.9448523 | 58 | 9.9983220 | 11.0551477 |
| 3 | 8.9446063 | 8.9462954 | 57 | 9.9983109 | 11.0537046 |
| 4 | 8.9460335 | 8.9477338 | 56 | 9.9982997 | 11.0522662 |
| 5 | 8.9474561 | 8.9491676 | 55 | 9.9982885 | 11.0508324 |
| 6 | 8.9488739 | 8.9505967 | 54 | 9.9982772 | 11.0494033 |
| 7 | 8.9502871 | 8.9520211 | 53 | 9.9982660 | 11.0479789 |
| 8 | 8.9516957 | 8.9534410 | 52 | 9.9982546 | 11.0465590 |
| 9 | 8.9530996 | 8.9548564 | 51 | 9.9982433 | 11.0451436 |
| 10 | 8.9544991 | 8.9562672 | 50 | 9.9982318 | 11.0437328 |
| 11 | 8.9558940 | 8.9576735 | 49 | 9.9982204 | 11.0423265 |
| 12 | 8.9572843 | 8.9590754 | 48 | 9.9982089 | 11.0409246 |
| 13 | 8.9586703 | 8.9604728 | 47 | 9.9981974 | 11.0395272 |
| 14 | 8.9600517 | 8.9618659 | 46 | 9.9981859 | 11.0381341 |
| 15 | 8.9614288 | 8.9632545 | 45 | 9.9981743 | 11.0367455 |
| 16 | 8.9628014 | 8.9646388 | 44 | 9.9981626 | 11.0353612 |
| 17 | 8.9641697 | 8.9660188 | 43 | 9.9981510 | 11.0339812 |
| 18 | 8.9655337 | 8.9673944 | 42 | 9.9981393 | 11.0326056 |
| 19 | 8.9668934 | 8.9687658 | 41 | 9.9981275 | 11.0312342 |
| 20 | 8.9682487 | 8.9701330 | 40 | 9.9981158 | 11.0298670 |
| 21 | 8.9695999 | 8.9714959 | 39 | 9.9981040 | 11.0285041 |
| 22 | 8.9709468 | 8.9728547 | 38 | 9.9980921 | 11.0271453 |
| 23 | 8.9722895 | 8.9742092 | 37 | 9.9980802 | 11.0257908 |
| 24 | 8.9736280 | 8.9755597 | 36 | 9.9980683 | 11.0244403 |
| 25 | 8.9749624 | 8.9769060 | 35 | 9.9980563 | 11.0230940 |
| 26 | 8.9762926 | 8.9782483 | 34 | 9.9980443 | 11.0217517 |
| 27 | 8.9776188 | 8.9795865 | 33 | 9.9980323 | 11.0204135 |
| 28 | 8.9789408 | 8.9809206 | 32 | 9.9980202 | 11.0190794 |
| 29 | 8.9802589 | 8.9822507 | 31 | 9.9980081 | 11.0177493 |
| 30 | 8.9815729 | 8.9835769 | 30 | 9.9979960 | 11.0164231 |

| Minut. | 5. Grad. | |
|---|---|---|
| | Log. Sín. | Log. Tang. |
| 0 | 8.9815729 | 8.9835769 |
| 1 | 8.9828829 | 8.9848991 |
| 2 | 8.9841889 | 8.9862173 |
| 3 | 8.9854910 | 8.9875317 |
| 4 | 8.9867891 | 8.9888421 |
| 5 | 8.9880834 | 8.9901487 |
| 6 | 8.9893737 | 8.9914514 |
| 7 | 8.9906602 | 8.9927503 |
| 8 | 8.9919429 | 8.9940454 |
| 9 | 8.9932217 | 8.9953367 |
| 10 | 8.9944968 | 8.9966243 |
| 11 | 8.9957681 | 8.9979081 |
| 12 | 8.9970356 | 8.9991883 |
| 13 | 8.9982994 | 9.0004647 |
| 14 | 8.9995595 | 9.0017375 |
| 15 | 9.0008160 | 9.0030066 |
| 16 | 9.0020687 | 9.0042721 |
| 17 | 9.0033179 | 9.0055340 |
| 18 | 9.0045634 | 9.0067924 |
| 19 | 9.0058053 | 9.0080471 |
| 20 | 9.0070436 | 9.0092984 |
| 21 | 9.0082784 | 9.0105461 |
| 22 | 9.0095096 | 9.0117903 |
| 23 | 9.0107374 | 9.0130310 |
| 24 | 9.0119616 | 9.0142682 |
| 25 | 9.0131823 | 9.0155021 |
| 26 | 9.0143996 | 9.0167325 |
| 27 | 9.0156135 | 9.0179594 |
| 28 | 9.0168239 | 9.0191831 |
| 29 | 9.0180309 | 9.0204033 |
| 30 | 9.0192346 | 9.0216202 |

| Minut. | 84. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.997996 | 11.0164231 |
| 29 | 9.997983 | 11.0151009 |
| 28 | 9.997971 | 11.0137827 |
| 27 | 9.9979593 | 11.0124683 |
| 26 | 9.997947 | 11.0111579 |
| 25 | 9.997934 | 11.0098513 |
| 24 | 9.997922 | 11.0085486 |
| 23 | 9.997909 | 11.0072497 |
| 22 | 9.9978975 | 11.0059546 |
| 21 | 9.9978850 | 11.0046633 |
| 20 | 9.9978725 | 11.0033757 |
| 19 | 9.997859 | 11.0020919 |
| 18 | 9.9978473 | 11.0008117 |
| 17 | 9.9978347 | 10.9995353 |
| 16 | 9.9978220 | 10.9982625 |
| 15 | 9.9978093 | 10.9969934 |
| 14 | 9.9977966 | 10.9957279 |
| 13 | 9.9977838 | 10.9944660 |
| 12 | 9.9977710 | 10.9932076 |
| 11 | 9.9977582 | 10.9919529 |
| 10 | 9.9977453 | 10.9907016 |
| 9 | 9.9977323 | 10.9894539 |
| 8 | 9.9977194 | 10.9882097 |
| 7 | 9.9977064 | 10.9869690 |
| 6 | 9.9976933 | 10.9857318 |
| 5 | 9.9976803 | 10.9844979 |
| 4 | 9.9976672 | 10.9832675 |
| 3 | 9.9976540 | 10.9820406 |
| 2 | 9.9976408 | 10.9808169 |
| 1 | 9.9976276 | 10.9795967 |
| 0 | 9.9976143 | 10.9783798 |

| Minut. | 6. Grad. | | | Minut. | 83. Grad. | | |
|---|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | | Log. Sin. | Log. Tang. | |
| 0 | 9.0192346 | 9.0216202 | | 60 | 9.9976143 | 10.9783798 | |
| 1 | 9.0204348 | 9.0228338 | | 59 | 9.9976011 | 10.9771662 | |
| 2 | 9.0216318 | 9.0240441 | | 58 | 9.9975877 | 10.9759559 | |
| 3 | 9.0228254 | 9.0252510 | | 57 | 9.9975743 | 10.9747490 | |
| 4 | 9.0240157 | 9.0264548 | | 56 | 9.9975609 | 10.9735452 | |
| 5 | 9.0252027 | 9.0276552 | | 55 | 9.9975475 | 10.9723448 | |
| 6 | 9.0263865 | 9.0288524 | | 54 | 9.9975340 | 10.9711476 | |
| 7 | 9.0275669 | 9.0300464 | | 53 | 9.9975205 | 10.9699536 | |
| 8 | 9.0287442 | 9.0312373 | | 52 | 9.9975069 | 10.9687627 | |
| 9 | 9.0299182 | 9.0324249 | | 51 | 9.9974933 | 10.9675751 | |
| 10 | 9.0310890 | 9.0336093 | | 50 | 9.9974797 | 10.9663907 | |
| 11 | 9.0322567 | 9.0347906 | | 49 | 9.9974660 | 10.9652094 | |
| 12 | 9.0334212 | 9.0359688 | | 48 | 9.9974523 | 10.9640312 | |
| 13 | 9.0345825 | 9.0371439 | | 47 | 9.9974386 | 10.9628561 | |
| 14 | 9.0357407 | 9.0383159 | | 46 | 9.9974248 | 10.9616841 | |
| 15 | 9.0368958 | 9.0394848 | | 45 | 9.9974110 | 10.9605152 | |
| 16 | 9.0380477 | 9.0406506 | | 44 | 9.9973971 | 10.9593494 | |
| 17 | 9.0391966 | 9.0418134 | | 43 | 9.9973833 | 10.9581866 | |
| 18 | 9.0403424 | 9.0429731 | | 42 | 9.9973693 | 10.9570269 | |
| 19 | 9.0414852 | 9.0441299 | | 41 | 9.9973554 | 10.9558701 | |
| 20 | 9.0426249 | 9.0452836 | | 40 | 9.9973414 | 10.9547164 | |
| 21 | 9.0437617 | 9.0464343 | | 39 | 9.9973273 | 10.9535657 | |
| 22 | 9.0448954 | 9.0475821 | | 38 | 9.9973132 | 10.9524179 | |
| 23 | 9.0460261 | 9.0487270 | | 37 | 9.9972991 | 10.9512730 | |
| 24 | 9.0471538 | 9.0498689 | | 36 | 9.9972850 | 10.9501311 | |
| 25 | 9.0482786 | 9.0510078 | | 35 | 9.9972708 | 10.9489922 | |
| 26 | 9.0494005 | 9.0521439 | | 34 | 9.9972566 | 10.9478561 | |
| 27 | 9.0505194 | 9.0532771 | | 33 | 9.9972423 | 10.9467229 | |
| 28 | 9.0516354 | 9.0544074 | | 32 | 9.9972280 | 10.9455926 | |
| 29 | 9.0527485 | 9.0555349 | | 31 | 9.9972137 | 10.9444651 | |
| 30 | 9.0538588 | 9.0566595 | | 30 | 9.9971993 | 10.9433405 | |

| Minut. | 6. Grad. | | 83. Grad. | | Minut. |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | Log. Sin. | Log. Tang. | |
| 30 | 9.0538588 | 9.0566595 | 9.9971993 | 10.9433405 | 30 |
| 31 | 9.0549661 | 9.0577813 | 9.9971849 | 10.9422187 | 29 |
| 32 | 9.0560706 | 9.0589002 | 9.9971704 | 10.9410998 | 28 |
| 33 | 9.0571723 | 9.0600164 | 9.9971559 | 10.9399836 | 27 |
| 34 | 9.0582711 | 9.0611297 | 9.9971414 | 10.9388703 | 26 |
| 35 | 9.0593672 | 9.0622403 | 9.9971268 | 10.9377597 | 25 |
| 36 | 9.0604604 | 9.0633482 | 9.9971122 | 10.9366518 | 24 |
| 37 | 9.0615509 | 9.0644533 | 9.9970976 | 10.9355467 | 23 |
| 38 | 9.0626386 | 9.0655556 | 9.9970829 | 10.9344444 | 22 |
| 39 | 9.0637235 | 9.0666553 | 9.9970682 | 10.9333447 | 21 |
| 40 | 9.0648057 | 9.0677522 | 9.9970535 | 10.9322478 | 20 |
| 41 | 9.0658852 | 9.0688465 | 9.9970387 | 10.9311535 | 19 |
| 42 | 9.0669619 | 9.0699381 | 9.9970239 | 10.9300619 | 18 |
| 43 | 9.0680360 | 9.0710270 | 9.9970090 | 10.9289730 | 17 |
| 44 | 9.0691074 | 9.0721133 | 9.9969941 | 10.9278867 | 16 |
| 45 | 9.0701761 | 9.0731969 | 9.9969792 | 10.9268031 | 15 |
| 46 | 9.0712421 | 9.0742779 | 9.9969642 | 10.9257221 | 14 |
| 47 | 9.0723055 | 9.0753563 | 9.9969492 | 10.9246437 | 13 |
| 48 | 9.0733663 | 9.0764321 | 9.9969342 | 10.9235679 | 12 |
| 49 | 9.0744244 | 9.0775053 | 9.9969191 | 10.9224947 | 11 |
| 50 | 9.0754799 | 9.0785760 | 9.9969040 | 10.9214240 | 10 |
| 51 | 9.0765329 | 9.0796441 | 9.9968888 | 10.9203559 | 9 |
| 52 | 9.0775832 | 9.0807096 | 9.9968736 | 10.9192904 | 8 |
| 53 | 9.0786310 | 9.0817726 | 9.9968584 | 10.9182274 | 7 |
| 54 | 9.0796762 | 9.0828331 | 9.9968431 | 10.9171669 | 6 |
| 55 | 9.0807189 | 9.0838911 | 9.9968278 | 10.9161089 | 5 |
| 56 | 9.0817590 | 9.0849466 | 9.9968125 | 10.9150534 | 4 |
| 57 | 9.0827966 | 9.0859996 | 9.9967971 | 10.9140004 | 3 |
| 58 | 9.0838317 | 9.0870501 | 9.9967817 | 10.9129499 | 2 |
| 59 | 9.0848643 | 9.0880981 | 9.9967662 | 10.9119019 | 1 |
| 60 | 9.0858945 | 9.0891438 | 9.9967507 | 10.9108562 | 0 |

| Minut. | 7. Grad. | | Minut. | 82. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.0858945 | 9.0891438 | 60 | 9.9967507 | 10.9108562 |
| 1 | 9.0869221 | 9.0901869 | 59 | 9.9967352 | 10.9098131 |
| 2 | 9.0879473 | 9.0912277 | 58 | 9.9967196 | 10.9087723 |
| 3 | 9.0889700 | 9.0922660 | 57 | 9.9967040 | 10.9077340 |
| 4 | 9.0899903 | 9.0933020 | 56 | 9.9966884 | 10.9066980 |
| 5 | 9.0910082 | 9.0943355 | 55 | 9.9966727 | 10.9056645 |
| 6 | 9.0920237 | 9.0953667 | 54 | 9.9966570 | 10.9046333 |
| 7 | 9.0930367 | 9.0963955 | 53 | 9.9966412 | 10.9036045 |
| 8 | 9.0940474 | 9.0974219 | 52 | 9.9966254 | 10.9025781 |
| 9 | 9.0950556 | 9.0984460 | 51 | 9.9966096 | 10.9015540 |
| 10 | 9.0960615 | 9.0994678 | 50 | 9.9965937 | 10.9005322 |
| 11 | 9.0970651 | 9.1004872 | 49 | 9.9965778 | 10.8995128 |
| 12 | 9.0980662 | 9.1015044 | 48 | 9.9965619 | 10.8984956 |
| 13 | 9.0990651 | 9.1025192 | 47 | 9.9965459 | 10.8974808 |
| 14 | 9.1000616 | 9.1035317 | 46 | 9.9965299 | 10.8964683 |
| 15 | 9.1010558 | 9.1045420 | 45 | 9.9965138 | 10.8954580 |
| 16 | 9.1020477 | 9.1055500 | 44 | 9.9964977 | 10.8944500 |
| 17 | 9.1030373 | 9.1065557 | 43 | 9.9964816 | 10.8934443 |
| 18 | 9.1040246 | 9.1075591 | 42 | 9.9964655 | 10.8924409 |
| 19 | 9.1050096 | 9.1085604 | 41 | 9.9964493 | 10.8914396 |
| 20 | 9.1059924 | 9.1095594 | 40 | 9.9964330 | 10.8904406 |
| 21 | 9.1069729 | 9.1105562 | 39 | 9.9964167 | 10.8894438 |
| 22 | 9.1079512 | 9.1115508 | 38 | 9.9964004 | 10.8884492 |
| 23 | 9.1089272 | 9.1125431 | 37 | 9.9963841 | 10.8874569 |
| 24 | 9.1099010 | 9.1135333 | 36 | 9.9963677 | 10.8864667 |
| 25 | 9.1108726 | 9.1145213 | 35 | 9.9963513 | 10.8854787 |
| 26 | 9.1118420 | 9.1155072 | 34 | 9.9963348 | 10.8844928 |
| 27 | 9.1128092 | 9.1164909 | 33 | 9.9963183 | 10.8835091 |
| 28 | 9.1137742 | 9.1174724 | 32 | 9.9963018 | 10.8825276 |
| 29 | 9.1147370 | 9.1184518 | 31 | 9.9962852 | 10.8815482 |
| 30 | 9.1156977 | 9.1194291 | 30 | 9.9962686 | 10.8805709 |

| Minut. | 7. Grad. | | Minut. | 82. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.1156977 | 9.1194291 | 30 | 9.9962685 | 10.8805709 |
| 31 | 9.1166562 | 9.1204043 | 29 | 9.9962519 | 10.8795957 |
| 32 | 9.1176125 | 9.1213773 | 28 | 9.9962352 | 10.8786227 |
| 33 | 9.1185667 | 9.1223482 | 27 | 9.9962185 | 10.8776518 |
| 34 | 9.1195188 | 9.1233171 | 26 | 9.9962017 | 10.8766829 |
| 35 | 9.1204688 | 9.1242839 | 25 | 9.9961849 | 10.8757161 |
| 36 | 9.1214167 | 9.1252486 | 24 | 9.9961681 | 10.8747514 |
| 37 | 9.1223624 | 9.1262112 | 23 | 9.9961512 | 10.8737888 |
| 38 | 9.1233061 | 9.1271718 | 22 | 9.9961343 | 10.8728282 |
| 39 | 9.1242477 | 9.1281303 | 21 | 9.9961174 | 10.8718697 |
| 40 | 9.1251872 | 9.1290868 | 20 | 9.9961004 | 10.8709132 |
| 41 | 9.1261246 | 9.1300413 | 19 | 9.9960834 | 10.8699587 |
| 42 | 9.1270600 | 9.1309937 | 18 | 9.9960663 | 10.8690063 |
| 43 | 9.1279934 | 9.1319442 | 17 | 9.9960492 | 10.8680558 |
| 44 | 9.1289247 | 9.1328926 | 16 | 9.9960321 | 10.8671074 |
| 45 | 9.1298539 | 9.1338391 | 15 | 9.9960149 | 10.8661609 |
| 46 | 9.1307812 | 9.1347835 | 14 | 9.9959977 | 10.8652165 |
| 47 | 9.1317064 | 9.1357260 | 13 | 9.9959804 | 10.8642740 |
| 48 | 9.1326297 | 9.1366665 | 12 | 9.9959631 | 10.8633335 |
| 49 | 9.1335509 | 9.1376051 | 11 | 9.9959458 | 10.8623949 |
| 50 | 9.1344702 | 9.1385417 | 10 | 9.9959284 | 10.8614583 |
| 51 | 9.1353875 | 9.1394764 | 9 | 9.9959111 | 10.8605236 |
| 52 | 9.1363028 | 9.1404092 | 8 | 9.9958936 | 10.8595908 |
| 53 | 9.1372161 | 9.1413400 | 7 | 9.9958761 | 10.8586600 |
| 54 | 9.1381275 | 9.1422689 | 6 | 9.9958586 | 10.8577311 |
| 55 | 9.1390370 | 9.1431959 | 5 | 9.9958411 | 10.8568041 |
| 56 | 9.1399445 | 9.1441210 | 4 | 9.9958235 | 10.8558790 |
| 57 | 9.1408501 | 9.1450442 | 3 | 9.9958059 | 10.8549558 |
| 58 | 9.1417537 | 9.1459655 | 2 | 9.9957882 | 10.8540345 |
| 59 | 9.1426555 | 9.1468850 | 1 | 9.9957705 | 10.8531150 |
| 60 | 9.1435553 | 9.1478025 | 0 | 9.9957528 | 10.8521975 |

| Minut. | 8. Grad. | | Minut. | 81. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tan |
| 0 | 9.1435553 | 9.1478025 | 60 | 9.9957528 | 10.852197 |
| 1 | 9.1444532 | 9.1487182 | 59 | 9.9957350 | 10.851281 |
| 2 | 9.1453493 | 9.1496321 | 58 | 9.9957172 | 10.850367 |
| 3 | 9.1462435 | 9.1505441 | 57 | 9.9956993 | 10.849455 |
| 4 | 9.1471358 | 9.1514543 | 56 | 9.9956815 | 10.848545 |
| 5 | 9.1480262 | 9.1523627 | 55 | 9.9956635 | 10.847637 |
| 6 | 9.1489148 | 9.1532692 | 54 | 9.9956456 | 10.846730 |
| 7 | 9.1498015 | 9.1541739 | 53 | 9.9956276 | 10.845826 |
| 8 | 9.1506864 | 9.1550769 | 52 | 9.9956095 | 10.8449231 |
| 9 | 9.1515694 | 9.1559780 | 51 | 9.9955915 | 10.8440220 |
| 10 | 9.1524507 | 9.1568773 | 50 | 9.9955734 | 10.8431227 |
| 11 | 9.1533301 | 9.1577748 | 49 | 9.9955552 | 10.8422252 |
| 12 | 9.1542076 | 9.1586706 | 48 | 9.9955370 | 10.8413294 |
| 13 | 9.1550834 | 9.1595646 | 47 | 9.9955188 | 10.8404354 |
| 14 | 9.1559574 | 9.1604569 | 46 | 9.9955005 | 10.8395431 |
| 15 | 9.1568296 | 9.1613473 | 45 | 9.9954822 | 10.8386527 |
| 16 | 9.1577000 | 9.1622361 | 44 | 9.9954639 | 10.8377639 |
| 17 | 9.1585686 | 9.1631231 | 43 | 9.9954455 | 10.8368769 |
| 18 | 9.1594354 | 9.1640083 | 42 | 9.9954271 | 10.8359917 |
| 19 | 9.1603005 | 9.1648919 | 41 | 9.9954087 | 10.83 |
| 20 | 9.1611639 | 9.1657737 | 40 | 9.9953902 | 10.8342263 |
| 21 | 9.1620254 | 9.1666538 | 39 | 9.9953717 | 10.8333462 |
| 22 | 9.1628853 | 9.1675322 | 38 | 9.9953531 | 10.8324678 |
| 23 | 9.1637434 | 9.1684089 | 37 | 9.9953345 | 10.8315911 |
| 24 | 9.1645998 | 9.1692839 | 36 | 9.9953159 | 10.8307161 |
| 25 | 9.1654544 | 9.1701572 | 35 | 9.9952972 | 10.8298428 |
| 26 | 9.1663074 | 9.1710289 | 34 | 9.9952785 | 10.8289711 |
| 27 | 9.1671586 | 9.1718989 | 33 | 9.9952597 | 10.8281011 |
| 28 | 9.1680081 | 9.1727672 | 32 | 9.9952409 | 10.8272328 |
| 29 | 9.1688559 | 9.1736338 | 31 | 9.9952221 | 10.8263662 |
| 30 | 9.1697021 | 9.1744988 | 30 | 9.9952033 | 10.8255012 |

| Minut. | 8. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 10 | 9.1697021 | 9.1744988 |
| 11 | 9.1705465 | 9.1753622 |
| 12 | 9.1713893 | 9.1762239 |
| 13 | 9.1722305 | 9.1770840 |
| 14 | 9.1730699 | 9.1779425 |
| 15 | 9.1739077 | 9.1787993 |
| 16 | 9.1747439 | 9.1796546 |
| 17 | 9.1755784 | 9.1805082 |
| 18 | 9.1764112 | 9.1813602 |
| 19 | 9.1772425 | 9.1822106 |
| 20 | 9.1780721 | 9.1830595 |
| 21 | 9.1789001 | 9.1839068 |
| 22 | 9.1797265 | 9.1847525 |
| 23 | 9.1805512 | 9.1855966 |
| 24 | 9.1813744 | 9.1864392 |
| 25 | 9.1821960 | 9.1872802 |
| 26 | 9.1830160 | 9.1881196 |
| 27 | 9.1838344 | 9.1889575 |
| 28 | 9.1846512 | 9.1897939 |
| 29 | 9.1854665 | 9.1906287 |
| 30 | 9.1862802 | 9.1914621 |
| 31 | 9.1870923 | 9.1922939 |
| 32 | 9.1879029 | 9.1931241 |
| 33 | 9.1887120 | 9.1939529 |
| 34 | 9.1895195 | 9.1947802 |
| 35 | 9.1903254 | 9.1956059 |
| 36 | 9.1911299 | 9.1964302 |
| 37 | 9.1919328 | 9.1972530 |
| 38 | 9.1927342 | 9.1980743 |
| 39 | 9.1935341 | 9.1988941 |
| 60 | 9.1943324 | 9.1997125 |

| Minut. | 81. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9952033 | 10.8255012 |
| 29 | 9.9951844 | 10.8246378 |
| 28 | 9.9951654 | 10.8237761 |
| 27 | 9.9951464 | 10.8229160 |
| 26 | 9.9951274 | 10.8220575 |
| 25 | 9.9951084 | 10.8212007 |
| 24 | 9.9950893 | 10.8203454 |
| 23 | 9.9950702 | 10.8194918 |
| 22 | 9.9950510 | 10.8186398 |
| 21 | 9.9950318 | 10.8177894 |
| 20 | 9.9950126 | 10.8169405 |
| 19 | 9.9949933 | 10.8160932 |
| 18 | 9.9949740 | 10.8152475 |
| 17 | 9.9949546 | 10.8144034 |
| 16 | 9.9949352 | 10.8135608 |
| 15 | 9.9949158 | 10.8127198 |
| 14 | 9.9948964 | 10.8118804 |
| 13 | 9.9948769 | 10.8110425 |
| 12 | 9.9948573 | 10.8102061 |
| 11 | 9.9948377 | 10.8093713 |
| 10 | 9.9948181 | 10.8085379 |
| 9 | 9.9947985 | 10.8077061 |
| 8 | 9.9947788 | 10.8068759 |
| 7 | 9.9947591 | 10.8060471 |
| 6 | 9.9947393 | 10.8052198 |
| 5 | 9.9947195 | 10.8043941 |
| 4 | 9.9946997 | 10.8035698 |
| 3 | 9.9946798 | 10.8027470 |
| 2 | 9.9946599 | 10.8019257 |
| 1 | 9.9946399 | 10.8011059 |
| 0 | 9.9946195 | 10.8002875 |

| 9. Grad. | | | Minut. | 80. Grad. | |
|---|---|---|---|---|---|
| Log. | Sin. | Log. Tang. | | Log. Sin. | Log. Tan |
| 9.1943324 | | 9.1997125 | 60 | 9.9946199 | 10.80028 |
| 9.1951293 | | 9.2005294 | 59 | 9.9945999 | 10.799470 |
| 9.1959247 | | 9.2013449 | 58 | 9.9945798 | 10.798655 |
| 9.1967186 | | 9.2021588 | 57 | 9.9945597 | 10.797841 |
| 9.1975110 | | 9.2029714 | 56 | 9.9945396 | 10.797028 |
| 9.1983019 | | 9.2037825 | 55 | 9.9945194 | 10.796217 |
| 9.1990913 | | 9.2045922 | 54 | 9.9944992 | 10.795407 |
| 9.1998793 | | 9.2054004 | 53 | 9.9944789 | 10.794599 |
| 9.2006658 | | 9.2062072 | 52 | 9.9944587 | 10.793792 |
| 9.2014509 | | 9.2070126 | 51 | 9.9944383 | 10.792987 |
| 9.2022345 | | 9.2078165 | 50 | 9.9944180 | 10.792183 |
| 9.2030167 | | 9.2086191 | 49 | 9.9943975 | 10.791380 |
| 9.2037974 | | 9.2094203 | 48 | 9.9943771 | 10.790579 |
| 9.2045766 | | 9.2102200 | 47 | 9.9943566 | 10.789780 |
| 9.2053545 | | 9.2110184 | 46 | 9.9943361 | 10.788981 |
| 9.2061309 | | 9.2118153 | 45 | 9.9943156 | 10.788184 |
| 9.2069059 | | 9.2126109 | 44 | 9.9942950 | 10.787389 |
| 9.2076795 | | 9.2134051 | 43 | 9.9942743 | 10.786594 |
| 9.2084516 | | 9.2141980 | 42 | 9.9942537 | 10.785802 |
| 9.2092224 | | 9.2149894 | 41 | 9.9942330 | 10.785010 |
| 9.2099917 | | 9.2157795 | 40 | 9.9942122 | 10.784220 |
| 9.2107597 | | 9.2165683 | 39 | 9.9941914 | 10.783431 |
| 9.2115263 | | 9.2173556 | 38 | 9.9941706 | 10.782644 |
| 9.2122914 | | 9.2181417 | 37 | 9.9941498 | 10.781858 |
| 9.2130552 | | 9.2189264 | 36 | 9.9941289 | 10.781073 |
| 9.2138176 | | 9.2197097 | 35 | 9.9941079 | 10.780290 |
| 9.2145787 | | 9.2204917 | 34 | 9.9940870 | 10.779508 |
| 9.2153384 | | 9.2212724 | 33 | 9.9940659 | 10.778727 |
| 9.2160967 | | 9.2220518 | 32 | 9.9940449 | 10.777948 |
| 9.2168536 | | 9.2228298 | 31 | 9.9940238 | 10.777170 |
| 9.2176092 | | 9.2236065 | 30 | 9.9940027 | 10.776393 |

| Minut. | 9. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 0 | 9.2176092 | 9.2236065 |
| 1 | 9.2183635 | 9.2243819 |
| 2 | 9.2191164 | 9.2251561 |
| 3 | 9.2198680 | 9.2259289 |
| 4 | 9.2206182 | 9.2267004 |
| 5 | 9.2213671 | 9.2274706 |
| 6 | 9.2221147 | 9.2282395 |
| 7 | 9.2228609 | 9.2290071 |
| 8 | 9.2236059 | 9.2297735 |
| 9 | 9.2243495 | 9.2305386 |
| 10 | 9.2250918 | 9.2313024 |
| 11 | 9.2258328 | 9.2320650 |
| 12 | 9.2265725 | 9.2328262 |
| 13 | 9.2273110 | 9.2335863 |
| 14 | 9.2280481 | 9.2343451 |
| 15 | 9.2287839 | 9.2351026 |
| 16 | 9.2295185 | 9.2358589 |
| 17 | 9.2302518 | 9.2366139 |
| 18 | 9.2309838 | 9.2373678 |
| 19 | 9.2317145 | 9.2381203 |
| 20 | 9.2324440 | 9.2388717 |
| 21 | 9.2331722 | 9.2396218 |
| 22 | 9.2338992 | 9.2403708 |
| 23 | 9.2346249 | 9.2411185 |
| 24 | 9.2353494 | 9.2418650 |
| 25 | 9.2360726 | 9.2426103 |
| 26 | 9.2367946 | 9.2433543 |
| 27 | 9.2375153 | 9.2440972 |
| 28 | 9.2382349 | 9.2448389 |
| 29 | 9.2389532 | 9.2455794 |
| 30 | 9.2396702 | 9.2463188 |

| Minut. | 80. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9940027 | 10.7763935 |
| 29 | 9.9939815 | 10.7756185 |
| 28 | 9.9939603 | 10.7748439 |
| 27 | 9.9939391 | 10.7740711 |
| 26 | 9.9939178 | 10.7732996 |
| 25 | 9.9938965 | 10.7725294 |
| 24 | 9.9938752 | 10.7717605 |
| 23 | 9.9938538 | 10.7709929 |
| 22 | 9.9938324 | 10.7702265 |
| 21 | 9.9938109 | 10.7694614 |
| 20 | 9.9937894 | 10.7686976 |
| 19 | 9.9937679 | 10.7679350 |
| 18 | 9.9937463 | 10.7671738 |
| 17 | 9.9937247 | 10.7664137 |
| 16 | 9.9937030 | 10.7656549 |
| 15 | 9.9936813 | 10.7648974 |
| 14 | 9.9936596 | 10.7641411 |
| 13 | 9.9936378 | 10.7633861 |
| 12 | 9.9936160 | 10.7626322 |
| 11 | 9.9935942 | 10.7618797 |
| 10 | 9.9935723 | 10.7611283 |
| 9 | 9.9935504 | 10.7603782 |
| 8 | 9.9935285 | 10.7596292 |
| 7 | 9.9935065 | 10.7588815 |
| 6 | 9.9934844 | 10.7581350 |
| 5 | 9.9934624 | 10.7573897 |
| 4 | 9.9934403 | 10.7566457 |
| 3 | 9.9934181 | 10.7559028 |
| 2 | 9.9933959 | 10.7551611 |
| 1 | 9.9933737 | 10.7544206 |
| 0 | 9.9933515 | 10.7536812 |

| | 10. Grad. | | Minut. | 79. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| | 9.2396702 | 9.2463188 | 60 | 9.9933515 | 10.7536812 |
| | 9.2403861 | 9.2470569 | 59 | 9.9933292 | 10.7529431 |
| | 9.2411007 | 9.2477939 | 58 | 9.9933068 | 10.7522061 |
| | 9.2418141 | 9.2485297 | 57 | 9.9932845 | 10.7514703 |
| | 9.2425264 | 9.2492643 | 56 | 9.9932621 | 10.7507357 |
| | 9.2432374 | 9.2499978 | 55 | 9.9932396 | 10.7500022 |
| | 9.2439472 | 9.2507301 | 54 | 9.9932171 | 10.7492699 |
| | 9.2446558 | 9.2514612 | 53 | 9.9931946 | 10.7485388 |
| | 9.2453632 | 9.2521912 | 52 | 9.9931720 | 10.7478088 |
| | 9.2460695 | 9.2529200 | 51 | 9.9931494 | 10.7470800 |
| | 9.2467746 | 9.2536477 | 50 | 9.9931268 | 10.7463523 |
| | 9.2474784 | 9.2543743 | 49 | 9.9931041 | 10.7456257 |
| | 9.2481811 | 9.2550997 | 48 | 9.9930814 | 10.7449003 |
| | 9.2488827 | 9.2558240 | 47 | 9.9930587 | 10.7441760 |
| | 9.2495830 | 9.2565472 | 46 | 9.9930359 | 10.7434528 |
| | 9.2502822 | 9.2572691 | 45 | 9.9930131 | 10.7427308 |
| | 9.2509803 | 9.2579901 | 44 | 9.9929902 | 10.7420099 |
| | 9.2516772 | 9.2587099 | 43 | 9.9929673 | 10.7412901 |
| | 9.2523729 | 9.2594285 | 42 | 9.9929444 | 10.7405715 |
| | 9.2530675 | 9.2601461 | 41 | 9.9929214 | 10.7398539 |
| | 9.2537609 | 9.2608625 | 40 | 9.9928984 | 10.7391375 |
| | 9.2544532 | 9.2615779 | 39 | 9.9928753 | 10.7384221 |
| | 9.2551444 | 9.2622921 | 38 | 9.9928522 | 10.7377079 |
| | 9.2558344 | 9.2630053 | 37 | 9.9928291 | 10.7369947 |
| | 9.2565233 | 9.2637173 | 36 | 9.9928059 | 10.7362827 |
| | 9.2572110 | 9.2644283 | 35 | 9.9927827 | 10.7355717 |
| | 9.2578977 | 9.2651382 | 34 | 9.9927595 | 10.7348618 |
| | 9.2585832 | 9.2658470 | 33 | 9.9927362 | 10.7341530 |
| | 9.2592676 | 9.2665547 | 32 | 9.9927129 | 10.7334453 |
| | 9.2599509 | 9.2672613 | 31 | 9.9926895 | 10.7327387 |
| | 9.2606330 | 9.2679669 | 30 | 9.9926661 | 10.7320331 |

| Minut. | 10. Grad. Log. Sin. | Log. Tang. | Minut. | 79. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.2606330 | 9.2679669 | 30 | 9.9926661 | 10.7320331 |
| 31 | 9.2613141 | 9.2686714 | 29 | 9.9926427 | 10.7313286 |
| 32 | 9.2619941 | 9.2693749 | 28 | 9.9926192 | 10.7306251 |
| 33 | 9.2626729 | 9.2700772 | 27 | 9.9925957 | 10.7299228 |
| 34 | 9.2633507 | 9.2707786 | 26 | 9.9925722 | 10.7292214 |
| 35 | 9.2640274 | 9.2714788 | 25 | 9.9925486 | 10.7285212 |
| 36 | 9.2647030 | 9.2721780 | 24 | 9.9925250 | 10.7278220 |
| 37 | 9.2653775 | 9.2728762 | 23 | 9.9925013 | 10.7271238 |
| 38 | 9.2660509 | 9.2735733 | 22 | 9.9924776 | 10.7264267 |
| 39 | 9.2667232 | 9.2742694 | 21 | 9.9924539 | 10.7257306 |
| 40 | 9.2673945 | 9.2749644 | 20 | 9.9924301 | 10.7250356 |
| 41 | 9.2680647 | 9.2756584 | 19 | 9.9924063 | 10.7243416 |
| 42 | 9.2687338 | 9.2763514 | 18 | 9.9923824 | 10.7236486 |
| 43 | 9.2694019 | 9.2770434 | 17 | 9.9923585 | 10.7229566 |
| 44 | 9.2700689 | 9.2777343 | 16 | 9.9923346 | 10.7222657 |
| 45 | 9.2707348 | 9.2784242 | 15 | 9.9923106 | 10.7215758 |
| 46 | 9.2713997 | 9.2791131 | 14 | 9.9922866 | 10.7208869 |
| 47 | 9.2720635 | 9.2798009 | 13 | 9.9922626 | 10.7201991 |
| 48 | 9.2727263 | 9.2804878 | 12 | 9.9922385 | 10.7195122 |
| 49 | 9.2733880 | 9.2811736 | 11 | 9.9922144 | 10.7188264 |
| 50 | 9.2740487 | 9.2818585 | 10 | 9.9921902 | 10.7181415 |
| 51 | 9.2747083 | 9.2825423 | 9 | 9.9921660 | 10.7174577 |
| 52 | 9.2753669 | 9.2832251 | 8 | 9.9921418 | 10.7167749 |
| 53 | 9.2760245 | 9.2839070 | 7 | 9.9921175 | 10.7160930 |
| 54 | 9.2766811 | 9.2845878 | 6 | 9.9920932 | 10.7154122 |
| 55 | 9.2773366 | 9.2852677 | 5 | 9.9920689 | 10.7147323 |
| 56 | 9.2779911 | 9.2859466 | 4 | 9.9920445 | 10.7140534 |
| 57 | 9.2786445 | 9.2866245 | 3 | 9.9920201 | 10.7133755 |
| 58 | 9.2792970 | 9.2873014 | 2 | 9.9919956 | 10.7126986 |
| 59 | 9.2799484 | 9.2879773 | 1 | 9.9919711 | 10.7120227 |
| 60 | 9.2805988 | 9.2886523 | 0 | 9.9919466 | 10.7113477 |

| Minut. | 11. Grad. Log. Sin. | Log. Tang. | Minut. | 78. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.2805988 | 9.2886523 | 60 | 9.9919466 | 10.7113477 |
| 1 | 9.2812483 | 9.2893263 | 59 | 9.9919220 | 10.7106737 |
| 2 | 9.2818967 | 9.2899993 | 58 | 9.9918974 | 10.7100007 |
| 3 | 9.2825441 | 9.2906713 | 57 | 9.9918727 | 10.7093287 |
| 4 | 9.2831905 | 9.2913424 | 56 | 9.9918480 | 10.7086576 |
| 5 | 9.2838359 | 9.2920126 | 55 | 9.9918233 | 10.7079874 |
| 6 | 9.2844803 | 9.2926817 | 54 | 9.9917986 | 10.7073183 |
| 7 | 9.2851237 | 9.2933500 | 53 | 9.9917737 | 10.7066500 |
| 8 | 9.2857661 | 9.2940172 | 52 | 9.9917489 | 10.7059828 |
| 9 | 9.2864076 | 9.2946836 | 51 | 9.9917240 | 10.7053164 |
| 10 | 9.2870480 | 9.2953489 | 50 | 9.9916991 | 10.7046511 |
| 11 | 9.2876875 | 9.2960134 | 49 | 9.9916741 | 10.7039866 |
| 12 | 9.2883260 | 9.2966769 | 48 | 9.9916492 | 10.7033231 |
| 13 | 9.2889636 | 9.2973395 | 47 | 9.9916241 | 10.7026605 |
| 14 | 9.2896001 | 9.2980011 | 46 | 9.9915990 | 10.7019989 |
| 15 | 9.2902357 | 9.2986618 | 45 | 9.9915739 | 10.7013382 |
| 16 | 9.2908704 | 9.2993216 | 44 | 9.9915488 | 10.7006784 |
| 17 | 9.2915040 | 9.2999804 | 43 | 9.9915236 | 10.7000196 |
| 18 | 9.2921367 | 9.3006383 | 42 | 9.9914984 | 10.6993617 |
| 19 | 9.2927685 | 9.3012954 | 41 | 9.9914731 | 10.6987046 |
| 20 | 9.2933993 | 9.3019514 | 40 | 9.9914478 | 10.6980486 |
| 21 | 9.2940291 | 9.3026066 | 39 | 9.9914225 | 10.6973934 |
| 22 | 9.2946580 | 9.3032609 | 38 | 9.9913971 | 10.6967391 |
| 23 | 9.2952859 | 9.3039143 | 37 | 9.9913717 | 10.6960857 |
| 24 | 9.2959129 | 9.3045667 | 36 | 9.9913462 | 10.6954333 |
| 25 | 9.2965390 | 9.3052183 | 35 | 9.9913207 | 10.6947817 |
| 26 | 9.2971641 | 9.3058689 | 34 | 9.9912952 | 10.6941311 |
| 27 | 9.2977883 | 9.3065187 | 33 | 9.9912696 | 10.6934813 |
| 28 | 9.2984116 | 9.3071675 | 32 | 9.9912440 | 10.6928325 |
| 29 | 9.2990339 | 9.3078155 | 31 | 9.9912184 | 10.6921845 |
| 30 | 9.2996553 | 9.3084626 | 30 | 9.9911927 | 10.6915374 |

| Minut. | 11. Grad. Log. Sin. | Log. Tang. | Minut. | 78. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.2996553 | 9.3084626 | 30 | 9.9911927 | 10.6915374 |
| 31 | 9.3002758 | 9.3091088 | 29 | 9.9911670 | 10.6908912 |
| 32 | 9.3008953 | 9.3097541 | 28 | 9.9911412 | 10.6902459 |
| 33 | 9.3015140 | 9.3103985 | 27 | 9.9911154 | 10.6896015 |
| 34 | 9.3021317 | 9.3110421 | 26 | 9.9910896 | 10.6889579 |
| 35 | 9.3027485 | 9.3116848 | 25 | 9.9910637 | 10.6883152 |
| 36 | 9.3033644 | 9.3123266 | 24 | 9.9910378 | 10.6876734 |
| 37 | 9.3039794 | 9.3129675 | 23 | 9.9910119 | 10.6870325 |
| 38 | 9.3045934 | 9.3136076 | 22 | 9.9909859 | 10.6863924 |
| 39 | 9.3052066 | 9.3142468 | 21 | 9.9909598 | 10.6857532 |
| 40 | 9.3058189 | 9.3148851 | 20 | 9.9909338 | 10.6851149 |
| 41 | 9.3064303 | 9.3155226 | 19 | 9.9909077 | 10.6844774 |
| 42 | 9.3070407 | 9.3161592 | 18 | 9.9908815 | 10.6838408 |
| 43 | 9.3076503 | 9.3167950 | 17 | 9.9908553 | 10.6832050 |
| 44 | 9.3082590 | 9.3174299 | 16 | 9.9908291 | 10.6825701 |
| 45 | 9.3088668 | 9.3180640 | 15 | 9.9908029 | 10.6819360 |
| 46 | 9.3094737 | 9.3186972 | 14 | 9.9907766 | 10.6813028 |
| 47 | 9.3100798 | 9.3193295 | 13 | 9.9907502 | 10.6806705 |
| 48 | 9.3106849 | 9.3199611 | 12 | 9.9907239 | 10.6800389 |
| 49 | 9.3112892 | 9.3205918 | 11 | 9.9906974 | 10.6794082 |
| 50 | 9.3118926 | 9.3212216 | 10 | 9.9906710 | 10.6787784 |
| 51 | 9.3124951 | 9.3218506 | 9 | 9.9906445 | 10.6781494 |
| 52 | 9.3130968 | 9.3224788 | 8 | 9.9906180 | 10.6775212 |
| 53 | 9.3136976 | 9.3231061 | 7 | 9.9905914 | 10.6768939 |
| 54 | 9.3142975 | 9.3237327 | 6 | 9.9905648 | 10.6762673 |
| 55 | 9.3148965 | 9.3243584 | 5 | 9.9905382 | 10.6756416 |
| 56 | 9.3154947 | 9.3249832 | 4 | 9.9905115 | 10.6750168 |
| 57 | 9.3160921 | 9.3256073 | 3 | 9.9904848 | 10.6743927 |
| 58 | 9.3166885 | 9.3262305 | 2 | 9.9904580 | 10.6737695 |
| 59 | 9.3172841 | 9.3268529 | 1 | 9.9904312 | 10.6731471 |
| 60 | 9.3178789 | 9.3274745 | 0 | 9.9904044 | 10.6725251 |

| Minut. | 11. Grad. Log. Sin. | Log. Tang. | Minut. | 79. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.3178789 | 9.3274745 | 60 | 9.9904044 | 10.6725255 |
| 1 | 9.3184728 | 9.3280953 | 59 | 9.9903775 | 10.6719047 |
| 2 | 9.3190659 | 9.3287153 | 58 | 9.9903506 | 10.6712847 |
| 3 | 9.3196581 | 9.3293345 | 57 | 9.9903237 | 10.6706655 |
| 4 | 9.3202495 | 9.3299528 | 56 | 9.9902967 | 10.6700472 |
| 5 | 9.3208400 | 9.3305704 | 55 | 9.9902697 | 10.6694296 |
| 6 | 9.3214297 | 9.3311872 | 54 | 9.9902426 | 10.6688128 |
| 7 | 9.3220186 | 9.3318031 | 53 | 9.9902155 | 10.6681969 |
| 8 | 9.3226066 | 9.3324183 | 52 | 9.9901883 | 10.6675817 |
| 9 | 9.3231938 | 9.3330327 | 51 | 9.9901612 | 10.6669673 |
| 10 | 9.3237802 | 9.3336463 | 50 | 9.9901339 | 10.6663537 |
| 11 | 9.3243657 | 9.3342591 | 49 | 9.9901067 | 10.6657409 |
| 12 | 9.3249505 | 9.3348711 | 48 | 9.9900794 | 10.6651289 |
| 13 | 9.3255344 | 9.3354823 | 47 | 9.9900521 | 10.6645177 |
| 14 | 9.3261174 | 9.3360927 | 46 | 9.9900247 | 10.6639073 |
| 15 | 9.3266997 | 9.3367024 | 45 | 9.9899973 | 10.6632976 |
| 16 | 9.3272811 | 9.3373113 | 44 | 9.9899698 | 10.6626887 |
| 17 | 9.3278617 | 9.3379194 | 43 | 9.9899423 | 10.6620805 |
| 18 | 9.3284416 | 9.3385267 | 42 | 9.9899148 | 10.6614733 |
| 19 | 9.3290206 | 9.3391333 | 41 | 9.9898873 | 10.6608667 |
| 20 | 9.3295988 | 9.3397391 | 40 | 9.9898597 | 10.6602609 |
| 21 | 9.3301761 | 9.3403441 | 39 | 9.9898320 | 10.6596559 |
| 22 | 9.3307527 | 9.3409484 | 38 | 9.9898043 | 10.6590516 |
| 23 | 9.3313285 | 9.3415519 | 37 | 9.9897766 | 10.6584481 |
| 24 | 9.3319035 | 9.3421546 | 36 | 9.9897489 | 10.6578454 |
| 25 | 9.3324777 | 9.3427566 | 35 | 9.9897211 | 10.6572434 |
| 26 | 9.3330511 | 9.3433578 | 34 | 9.9896932 | 10.6566422 |
| 27 | 9.3336237 | 9.3439583 | 33 | 9.9896654 | 10.6560417 |
| 28 | 9.3341955 | 9.3445580 | 32 | 9.9896374 | 10.6554420 |
| 29 | 9.3347665 | 9.3451570 | 31 | 9.9896095 | 10.6548430 |
| 30 | 9.3353368 | 9.3457552 | 30 | 9.9895815 | 10.6542448 |

| Minut. | 12. Grad. | | Minut. | 77. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.3353368 | 9.3457552 | 30 | 9.9895815 | 10.6542448 |
| 31 | 9.3359062 | 9.3463527 | 29 | 9.9895535 | 10.6536473 |
| 32 | 9.3364749 | 9.3469494 | 28 | 9.9895254 | 10.6530506 |
| 33 | 9.3370428 | 9.3475454 | 27 | 9.9894973 | 10.6524546 |
| 34 | 9.3376099 | 9.3481407 | 26 | 9.9894692 | 10.6518593 |
| 35 | 9.3381762 | 9.3487352 | 25 | 9.9894410 | 10.6512648 |
| 36 | 9.3387418 | 9.3493290 | 24 | 9.9894128 | 10.6506710 |
| 37 | 9.3393065 | 9.3499220 | 23 | 9.9893845 | 10.6500780 |
| 38 | 9.3398706 | 9.3505143 | 22 | 9.9893562 | 10.6494857 |
| 39 | 9.3404338 | 9.3511059 | 21 | 9.9893279 | 10.6488941 |
| 40 | 9.3409963 | 9.3516968 | 20 | 9.9892995 | 10.6483032 |
| 41 | 9.3415580 | 9.3522869 | 19 | 9.9892711 | 10.6477131 |
| 42 | 9.3421190 | 9.3528763 | 18 | 9.9892427 | 10.6471237 |
| 43 | 9.3426792 | 9.3534650 | 17 | 9.9892142 | 10.6465350 |
| 44 | 9.3432386 | 9.3540530 | 16 | 9.9891856 | 10.6459470 |
| 45 | 9.3437973 | 9.3546402 | 15 | 9.9891571 | 10.6453598 |
| 46 | 9.3443552 | 9.3552267 | 14 | 9.9891285 | 10.6447733 |
| 47 | 9.3449124 | 9.3558127 | 13 | 9.9890998 | 10.6441874 |
| 48 | 9.3454688 | 9.3563977 | 12 | 9.9890711 | 10.6436023 |
| 49 | 9.3460245 | 9.3569821 | 11 | 9.9890424 | 10.6430179 |
| 50 | 9.3465794 | 9.3575658 | 10 | 9.9890137 | 10.6424342 |
| 51 | 9.3471336 | 9.3581487 | 9 | 9.9889849 | 10.6418513 |
| 52 | 9.3476870 | 9.3587310 | 8 | 9.9889560 | 10.6412690 |
| 53 | 9.3482397 | 9.3593126 | 7 | 9.9889271 | 10.6406874 |
| 54 | 9.3487917 | 9.3598935 | 6 | 9.9888982 | 10.6401065 |
| 55 | 9.3493429 | 9.3604736 | 5 | 9.9888693 | 10.6395264 |
| 56 | 9.3498934 | 9.3610531 | 4 | 9.9888403 | 10.6389469 |
| 57 | 9.3504432 | 9.3616319 | 3 | 9.9888113 | 10.6383681 |
| 58 | 9.3509922 | 9.3622100 | 2 | 9.9887822 | 10.6377900 |
| 59 | 9.3515405 | 9.3627874 | 1 | 9.9887531 | 10.6372126 |
| 60 | 9.3520880 | 9.3633641 | 0 | 9.9887239 | 10.6366359 |

| Minut. | 13. Grad. Log. Sin. | Log. Tang. | Minut. | 76. Grad. Log. Sin | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.3520880 | 9.3633641 | 60 | 9.9887239 | 10.6366359 |
| 1 | 9.3526349 | 9.3639401 | 59 | 9.9886947 | 10.6360599 |
| 2 | 9.3531810 | 9.3645155 | 58 | 9.9886655 | 10.6354845 |
| 3 | 9.3537264 | 9.3650901 | 57 | 9.9886363 | 10.6349099 |
| 4 | 9.3542710 | 9.3656641 | 56 | 9.9886070 | 10.6343359 |
| 5 | 9.3548150 | 9.3662374 | 55 | 9.9885776 | 10.6337626 |
| 6 | 9.3553582 | 9.3668100 | 54 | 9.9885482 | 10.6331900 |
| 7 | 9.3559007 | 9.3673819 | 53 | 9.9885188 | 10.6326181 |
| 8 | 9.3564426 | 9.3679532 | 52 | 9.9884894 | 10.6320468 |
| 9 | 9.3569836 | 9.3685238 | 51 | 9.9884599 | 10.6314762 |
| 10 | 9.3575240 | 9.3690937 | 50 | 9.9884303 | 10.6309063 |
| 11 | 9.3580637 | 9.3696629 | 49 | 9.9884008 | 10.6303371 |
| 12 | 9.3586027 | 9.3702315 | 48 | 9.9883712 | 10.6297685 |
| 13 | 9.3591409 | 9.3707994 | 47 | 9.9883415 | 10.6292006 |
| 14 | 9.3596785 | 9.3713667 | 46 | 9.9883118 | 10.6286333 |
| 15 | 9.3602154 | 9.3719333 | 45 | 9.9882821 | 10.6280667 |
| 16 | 9.3607515 | 9.3724992 | 44 | 9.9882523 | 10.6275008 |
| 17 | 9.3612870 | 9.3730645 | 43 | 9.9882225 | 10.6269355 |
| 18 | 9.3618217 | 9.3736291 | 42 | 9.9881927 | 10.6263709 |
| 19 | 9.3623558 | 9.3741930 | 41 | 9.9881628 | 10.6258070 |
| 20 | 9.3628892 | 9.3747563 | 40 | 9.9881329 | 10.6252437 |
| 21 | 9.3634219 | 9.3753190 | 39 | 9.9881029 | 10.6246810 |
| 22 | 9.3639539 | 9.3758810 | 38 | 9.9880729 | 10.6241190 |
| 23 | 9.3644852 | 9.3764423 | 37 | 9.9880429 | 10.6235577 |
| 24 | 9.3650158 | 9.3770030 | 36 | 9.9880128 | 10.6229970 |
| 25 | 9.3655458 | 9.3775631 | 35 | 9.9879827 | 10.6224369 |
| 26 | 9.3660750 | 9.3781225 | 34 | 9.9879525 | 10.6218775 |
| 27 | 9.3666036 | 9.3786813 | 33 | 9.9879223 | 10.6213187 |
| 28 | 9.3671315 | 9.3792394 | 32 | 9.9878921 | 10.6207606 |
| 29 | 9.3676587 | 9.3797969 | 31 | 9.9878618 | 10.6202031 |
| 30 | 9.3681853 | 9.3803537 | 30 | 9.9878315 | 10.6196463 |

| Minut. | 13. Grad. Log. Sin. | Log. Tang. | Minut. | 76. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.3681853 | 9.3803537 | 30 | 9.9878315 | 10.6196463 |
| 31 | 9.3687111 | 9.3809100 | 29 | 9.9878012 | 10.6190900 |
| 32 | 9.3692363 | 9.3814655 | 28 | 9.9877708 | 10.6185345 |
| 33 | 9.3697608 | 9.3820205 | 27 | 9.9877404 | 10.6179795 |
| 34 | 9.3702847 | 9.3825748 | 26 | 9.9877099 | 10.6174252 |
| 35 | 9.3708079 | 9.3831285 | 25 | 9.9876794 | 10.6168715 |
| 36 | 9.3713304 | 9.3836816 | 24 | 9.9876488 | 10.6163184 |
| 37 | 9.3718523 | 9.3842340 | 23 | 9.9876183 | 10.6157660 |
| 38 | 9.3723735 | 9.3847858 | 22 | 9.9875876 | 10.6152142 |
| 39 | 9.3728940 | 9.3853370 | 21 | 9.9875570 | 10.6146630 |
| 40 | 9.3734139 | 9.3858876 | 20 | 9.9875263 | 10.6141124 |
| 41 | 9.3739331 | 9.3864376 | 19 | 9.9874955 | 10.6135624 |
| 42 | 9.3744517 | 9.3869869 | 18 | 9.9874648 | 10.6130131 |
| 43 | 9.3749696 | 9.3875356 | 17 | 9.9874339 | 10.6124644 |
| 44 | 9.3754868 | 9.3880837 | 16 | 9.9874031 | 10.6119163 |
| 45 | 9.3760034 | 9.3886312 | 15 | 9.9873722 | 10.6113688 |
| 46 | 9.3765194 | 9.3891781 | 14 | 9.9873413 | 10.6108219 |
| 47 | 9.3770347 | 9.3897244 | 13 | 9.9873103 | 10.6102756 |
| 48 | 9.3775493 | 9.3902700 | 12 | 9.9872793 | 10.6097300 |
| 49 | 9.3780633 | 9.3908151 | 11 | 9.9872482 | 10.6091849 |
| 50 | 9.3785767 | 9.3913595 | 10 | 9.9872171 | 10.6086405 |
| 51 | 9.3790894 | 9.3919034 | 9 | 9.9871860 | 10.6080966 |
| 52 | 9.3796015 | 9.3924466 | 8 | 9.9871549 | 10.6075534 |
| 53 | 9.3801129 | 9.3929893 | 7 | 9.9871236 | 10.6070107 |
| 54 | 9.3806237 | 9.3935313 | 6 | 9.9870924 | 10.6064687 |
| 55 | 9.3811339 | 9.3940727 | 5 | 9.9870611 | 10.6059273 |
| 56 | 9.3816434 | 9.3946136 | 4 | 9.9870298 | 10.6053864 |
| 57 | 9.3821523 | 9.3951538 | 3 | 9.9869984 | 10.6048462 |
| 58 | 9.3826605 | 9.3956935 | 2 | 9.9869670 | 10.6043065 |
| 59 | 9.3831682 | 9.3962326 | 1 | 9.9869356 | 10.6037674 |
| 60 | 9.3836752 | 9.3967711 | 0 | 9.9869041 | 10.6032289 |

| Minut. | 14. Grad. | | Minut. | 75. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.3836752 | 9.3967711 | 60 | 9.9869041 | 10.6032289 |
| 1 | 9.3841815 | 9.3973089 | 59 | 9.9868726 | 10.6026911 |
| 2 | 9.3846873 | 9.3978463 | 58 | 9.9868410 | 10.6021537 |
| 3 | 9.3851924 | 9.3983830 | 57 | 9.9868094 | 10.6016170 |
| 4 | 9.3856969 | 9.3989191 | 56 | 9.9867778 | 10.6010809 |
| 5 | 9.3862008 | 9.3994547 | 55 | 9.9867461 | 10.6005453 |
| 6 | 9.3867040 | 9.3999896 | 54 | 9.9867144 | 10.6000104 |
| 7 | 9.3872067 | 9.4005240 | 53 | 9.9866827 | 10.5994760 |
| 8 | 9.3877087 | 9.4010578 | 52 | 9.9866509 | 10.5989422 |
| 9 | 9.3882101 | 9.4015910 | 51 | 9.9866191 | 10.5984090 |
| 10 | 9.3887109 | 9.4021237 | 50 | 9.9865872 | 10.5978763 |
| 11 | 9.3892111 | 9.4026558 | 49 | 9.9865553 | 10.5973442 |
| 12 | 9.3897106 | 9.4031873 | 48 | 9.9865233 | 10.5968127 |
| 13 | 9.3902096 | 9.4037182 | 47 | 9.9864913 | 10.5962818 |
| 14 | 9.3907079 | 9.4042486 | 46 | 9.9864593 | 10.5957514 |
| 15 | 9.3912057 | 9.4047784 | 45 | 9.9864273 | 10.5952216 |
| 16 | 9.3917028 | 9.4053076 | 44 | 9.9863952 | 10.5946924 |
| 17 | 9.3921993 | 9.4058363 | 43 | 9.9863630 | 10.5941637 |
| 18 | 9.3926952 | 9.4063644 | 42 | 9.9863308 | 10.5936356 |
| 19 | 9.3931905 | 9.4068919 | 41 | 9.9862986 | 10.5931081 |
| 20 | 9.3936852 | 9.4074189 | 40 | 9.9862663 | 10.5925811 |
| 21 | 9.3941794 | 9.4079453 | 39 | 9.9862340 | 10.5920547 |
| 22 | 9.3946729 | 9.4084712 | 38 | 9.9862017 | 10.5915288 |
| 23 | 9.3951658 | 9.4089965 | 37 | 9.9861693 | 10.5910035 |
| 24 | 9.3956581 | 9.4095212 | 36 | 9.9861369 | 10.5904788 |
| 25 | 9.3961499 | 9.4100454 | 35 | 9.9861045 | 10.5899546 |
| 26 | 9.3966410 | 9.4105690 | 34 | 9.9860720 | 10.5894310 |
| 27 | 9.3971315 | 9.4110921 | 33 | 9.9860394 | 10.5889079 |
| 28 | 9.3976215 | 9.4116146 | 32 | 9.9860069 | 10.5883854 |
| 29 | 9.3981108 | 9.4121366 | 31 | 9.9859742 | 10.5878634 |
| 30 | 9.3985996 | 9.4126581 | 30 | 9.9859416 | 10.5873419 |

| Minut. | 14. Grad. | | 75. Grad. | | Minut. |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | Log. Sin. | Log. Tang. | |
| 30 | 9.3985996 | 9.4126581 | 9.9859416 | 10.5873419 | 30 |
| 31 | 9.3990878 | 9.4131789 | 9.9859089 | 10.5868211 | 29 |
| 32 | 9.3995754 | 9.4136993 | 9.9858762 | 10.5863007 | 28 |
| 33 | 9.4000625 | 9.4142191 | 9.9858434 | 10.5857809 | 27 |
| 34 | 9.4005489 | 9.4147383 | 9.9858106 | 10.5852617 | 26 |
| 35 | 9.4010348 | 9.4152570 | 9.9857777 | 10.5847430 | 25 |
| 36 | 9.4015201 | 9.4157752 | 9.9857449 | 10.5842248 | 24 |
| 37 | 9.4020048 | 9.4162928 | 9.9857119 | 10.5837072 | 23 |
| 38 | 9.4024889 | 9.4168099 | 9.9856790 | 10.5831901 | 22 |
| 39 | 9.4029724 | 9.4173265 | 9.9856460 | 10.5826735 | 21 |
| 40 | 9.4034554 | 9.4178425 | 9.9856129 | 10.5821575 | 20 |
| 41 | 9.4039378 | 9.4183580 | 9.9855798 | 10.5816420 | 19 |
| 42 | 9.4044196 | 9.4188729 | 9.9855467 | 10.5811271 | 18 |
| 43 | 9.4049009 | 9.4193874 | 9.9855135 | 10.5806126 | 17 |
| 44 | 9.4053816 | 9.4199013 | 9.9854803 | 10.5800987 | 16 |
| 45 | 9.4058617 | 9.4204146 | 9.9854471 | 10.5795854 | 15 |
| 46 | 9.4063413 | 9.4209275 | 9.9854138 | 10.5790725 | 14 |
| 47 | 9.4068203 | 9.4214398 | 9.9853805 | 10.5785602 | 13 |
| 48 | 9.4072987 | 9.4219515 | 9.9853471 | 10.5780485 | 12 |
| 49 | 9.4077766 | 9.4224628 | 9.9853138 | 10.5775372 | 11 |
| 50 | 9.4082539 | 9.4229735 | 9.9852803 | 10.5770265 | 10 |
| 51 | 9.4087306 | 9.4234838 | 9.9852468 | 10.5765162 | 9 |
| 52 | 9.4092068 | 9.4239935 | 9.9852133 | 10.5760065 | 8 |
| 53 | 9.4096824 | 9.4245026 | 9.9851798 | 10.5754974 | 7 |
| 54 | 9.4101575 | 9.4250113 | 9.9851462 | 10.5749887 | 6 |
| 55 | 9.4106320 | 9.4255194 | 9.9851125 | 10.5744806 | 5 |
| 56 | 9.4111059 | 9.4260271 | 9.9850789 | 10.5739729 | 4 |
| 57 | 9.4115793 | 9.4265342 | 9.9850452 | 10.5734658 | 3 |
| 58 | 9.4120522 | 9.4270408 | 9.9850114 | 10.5729592 | 2 |
| 59 | 9.4125245 | 9.4275469 | 9.9849776 | 10.5724531 | 1 |
| 60 | 9.4129962 | 9.4280525 | 9.9849438 | 10.5719475 | 0 |

| Minut. | 15. Grad. | | Minut. | 74. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.4129962 | 9.4280525 | 60 | 9.9849438 | 10.5719475 |
| 1 | 9.4134674 | 9.4285575 | 59 | 9.9849099 | 10.5714425 |
| 2 | 9.4139381 | 9.4290621 | 58 | 9.9848760 | 10.5709379 |
| 3 | 9.4144082 | 9.4295661 | 57 | 9.9848420 | 10.5704339 |
| 4 | 9.4148778 | 9.4300697 | 56 | 9.9848081 | 10.5699303 |
| 5 | 9.4153468 | 9.4305727 | 55 | 9.9847740 | 10.5694273 |
| 6 | 9.4158152 | 9.4310753 | 54 | 9.9847400 | 10.5689247 |
| 7 | 9.4162832 | 9.4315773 | 53 | 9.9847059 | 10.5684227 |
| 8 | 9.4167506 | 9.4320789 | 52 | 9.9846717 | 10.5679211 |
| 9 | 9.4172174 | 9.4325799 | 51 | 9.9846375 | 10.5674201 |
| 10 | 9.4176837 | 9.4330804 | 50 | 9.9846033 | 10.5669196 |
| 11 | 9.4181495 | 9.4335805 | 49 | 9.9845690 | 10.5664195 |
| 12 | 9.4186148 | 9.4340800 | 48 | 9.9845347 | 10.5659200 |
| 13 | 9.4190795 | 9.4345791 | 47 | 9.9845004 | 10.5654209 |
| 14 | 9.4195436 | 9.4350776 | 46 | 9.9844660 | 10.5649224 |
| 15 | 9.4200073 | 9.4355757 | 45 | 9.9844316 | 10.5644243 |
| 16 | 9.4204704 | 9.4360733 | 44 | 9.9843971 | 10.5639267 |
| 17 | 9.4209330 | 9.4365704 | 43 | 9.9843626 | 10.5634296 |
| 18 | 9.4213950 | 9.4370670 | 42 | 9.9843281 | 10.5629330 |
| 19 | 9.4218566 | 9.4375631 | 41 | 9.9842935 | 10.5624369 |
| 20 | 9.4223176 | 9.4380587 | 40 | 9.9842589 | 10.5619413 |
| 21 | 9.4227780 | 9.4385538 | 39 | 9.9842242 | 10.5614462 |
| 22 | 9.4232380 | 9.4390485 | 38 | 9.9841895 | 10.5609515 |
| 23 | 9.4236974 | 9.4395426 | 37 | 9.9841548 | 10.5604574 |
| 24 | 9.4241563 | 9.4400363 | 36 | 9.9841200 | 10.5599637 |
| 25 | 9.4246147 | 9.4405295 | 35 | 9.9840852 | 10.5594705 |
| 26 | 9.4250726 | 9.4410222 | 34 | 9.9840503 | 10.5589778 |
| 27 | 9.4255299 | 9.4415145 | 33 | 9.9840154 | 10.5584855 |
| 28 | 9.4259867 | 9.4420062 | 32 | 9.9839805 | 10.5579938 |
| 29 | 9.4264430 | 9.4424975 | 31 | 9.9839455 | 10.5575025 |
| 30 | 9.4268988 | 9.4429883 | 30 | 9.9839105 | 10.5570117 |

| Minut. | 15. Grad. Log. Sin. | Log. Tang. | Minut. | 74. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.4268988 | 9.4429883 | 30 | 9.9839105 | 10.5570117 |
| 31 | 9.4273541 | 9.4434786 | 29 | 9.9838755 | 10.5565214 |
| 32 | 9.4278089 | 9.4439685 | 28 | 9.9838404 | 10.5560315 |
| 33 | 9.4282631 | 9.4444579 | 27 | 9.9838052 | 10.5555421 |
| 34 | 9.4287169 | 9.4449468 | 26 | 9.9837701 | 10.5550532 |
| 35 | 9.4291701 | 9.4454352 | 25 | 9.9837348 | 10.5545648 |
| 36 | 9.4296228 | 9.4459232 | 24 | 9.9836996 | 10.5540768 |
| 37 | 9.4300750 | 9.4464107 | 23 | 9.9836643 | 10.5535893 |
| 38 | 9.4305267 | 9.4468978 | 22 | 9.9836290 | 10.5531022 |
| 39 | 9.4309779 | 9.4473843 | 21 | 9.9835936 | 10.5526157 |
| 40 | 9.4314286 | 9.4478704 | 20 | 9.9835582 | 10.5521296 |
| 41 | 9.4318788 | 9.4483561 | 19 | 9.9835227 | 10.5516439 |
| 42 | 9.4323285 | 9.4488413 | 18 | 9.9834872 | 10.5511587 |
| 43 | 9.4327777 | 9.4493260 | 17 | 9.9834517 | 10.5506740 |
| 44 | 9.4332264 | 9.4498102 | 16 | 9.9834161 | 10.5501898 |
| 45 | 9.4336746 | 9.4502940 | 15 | 9.9833805 | 10.5497060 |
| 46 | 9.4341223 | 9.4507774 | 14 | 9.9833449 | 10.5492226 |
| 47 | 9.4345694 | 9.4512602 | 13 | 9.9833092 | 10.5487398 |
| 48 | 9.4350161 | 9.4517427 | 12 | 9.9832735 | 10.5482573 |
| 49 | 9.4354623 | 9.4522246 | 11 | 9.9832377 | 10.5477754 |
| 50 | 9.4359080 | 9.4527061 | 10 | 9.9832019 | 10.5472939 |
| 51 | 9.4363532 | 9.4531872 | 9 | 9.9831661 | 10.5468128 |
| 52 | 9.4367980 | 9.4536678 | 8 | 9.9831302 | 10.5463322 |
| 53 | 9.4372422 | 9.4541479 | 7 | 9.9830942 | 10.5458521 |
| 54 | 9.4376859 | 9.4546276 | 6 | 9.9830583 | 10.5453724 |
| 55 | 9.4381292 | 9.4551069 | 5 | 9.9830223 | 10.5448931 |
| 56 | 9.4385719 | 9.4555857 | 4 | 9.9829862 | 10.5444143 |
| 57 | 9.4390142 | 9.4560641 | 3 | 9.9829501 | 10.5439359 |
| 58 | 9.4394560 | 9.4565420 | 2 | 9.9829140 | 10.5434580 |
| 59 | 9.4398973 | 9.4570194 | 1 | 9.9828778 | 10.5429806 |
| 60 | 9.4403381 | 9.4574964 | 0 | 9.9828416 | 10.5425036 |

| Minut. | 16. Grad. Log. Sin. | Log. Tang. | Minut. | 73. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.4403381 | 9.4574964 | 60 | 9.9828416 | 10.5425036 |
| 1 | 9.4407784 | 9.4579730 | 59 | 9.9828054 | 10.5420270 |
| 2 | 9.4412182 | 9.4584491 | 58 | 9.9827691 | 10.5415509 |
| 3 | 9.4416576 | 9.4589248 | 57 | 9.9827328 | 10.5410752 |
| 4 | 9.4420965 | 9.4594001 | 56 | 9.9826964 | 10.5405999 |
| 5 | 9.4425349 | 9.4598749 | 55 | 9.9826600 | 10.5401251 |
| 6 | 9.4429728 | 9.4603492 | 54 | 9.9826236 | 10.5396508 |
| 7 | 9.4434103 | 9.4608232 | 53 | 9.9825871 | 10.5391768 |
| 8 | 9.4438472 | 9.4612967 | 52 | 9.9825506 | 10.5387033 |
| 9 | 9.4442837 | 9.4617697 | 51 | 9.9825140 | 10.5382303 |
| 10 | 9.4447197 | 9.4622423 | 50 | 9.9824774 | 10.5377577 |
| 11 | 9.4451553 | 9.4627145 | 49 | 9.9824408 | 10.5372855 |
| 12 | 9.4455904 | 9.4631863 | 48 | 9.9824041 | 10.5368137 |
| 13 | 9.4460250 | 9.4636576 | 47 | 9.9823674 | 10.5363424 |
| 14 | 9.4464591 | 9.4641285 | 46 | 9.9823306 | 10.5358715 |
| 15 | 9.4468927 | 9.4645990 | 45 | 9.9822938 | 10.5354010 |
| 16 | 9.4473259 | 9.4650690 | 44 | 9.9822569 | 10.5349310 |
| 17 | 9.4477586 | 9.4655386 | 43 | 9.9822201 | 10.5344614 |
| 18 | 9.4481909 | 9.4660078 | 42 | 9.9821831 | 10.5339922 |
| 19 | 9.4486227 | 9.4664765 | 41 | 9.9821462 | 10.5335235 |
| 20 | 9.4490540 | 9.4669448 | 40 | 9.9821092 | 10.5330552 |
| 21 | 9.4494849 | 9.4674127 | 39 | 9.9820721 | 10.5325873 |
| 22 | 9.4499153 | 9.4678802 | 38 | 9.9820351 | 10.5321198 |
| 23 | 9.4503452 | 9.4683473 | 37 | 9.9819979 | 10.5316527 |
| 24 | 9.4507747 | 9.4688139 | 36 | 9.9819608 | 10.5311861 |
| 25 | 9.4512037 | 9.4692801 | 35 | 9.9819236 | 10.5307199 |
| 26 | 9.4516322 | 9.4697459 | 34 | 9.9818863 | 10.5302541 |
| 27 | 9.4520603 | 9.4702112 | 33 | 9.9818490 | 10.5297888 |
| 28 | 9.4524879 | 9.4706762 | 32 | 9.9818117 | 10.5293238 |
| 29 | 9.4529151 | 9.4711407 | 31 | 9.9817744 | 10.5288593 |
| 30 | 9.4533418 | 9.4716048 | 30 | 9.9817370 | 10.5283952 |

| Minut. | 16. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.4533418 | 9.4716048 |
| 31 | 9.4537681 | 9.4720685 |
| 32 | 9.4541939 | 9.4725318 |
| 33 | 9.4546192 | 9.4729947 |
| 34 | 9.4550441 | 9.4734571 |
| 35 | 9.4554686 | 9.4739192 |
| 36 | 9.4558926 | 9.4743808 |
| 37 | 9.4563161 | 9.4748421 |
| 38 | 9.4567392 | 9.4753029 |
| 39 | 9.4571618 | 9.4757633 |
| 40 | 9.4575840 | 9.4762233 |
| 41 | 9.4580058 | 9.4766829 |
| 42 | 9.4584271 | 9.4771421 |
| 43 | 9.4588480 | 9.4776009 |
| 44 | 9.4592684 | 9.4780592 |
| 45 | 9.4596884 | 9.4785172 |
| 46 | 9.4601079 | 9.4789748 |
| 47 | 9.4605270 | 9.4794319 |
| 48 | 9.4609456 | 9.4798887 |
| 49 | 9.4613638 | 9.4803451 |
| 50 | 9.4617816 | 9.4808011 |
| 51 | 9.4621989 | 9.4812566 |
| 52 | 9.4626158 | 9.4817118 |
| 53 | 9.4630323 | 9.4821666 |
| 54 | 9.4634483 | 9.4826210 |
| 55 | 9.4638639 | 9.4830750 |
| 56 | 9.4642790 | 9.4835286 |
| 57 | 9.4646938 | 9.4839818 |
| 58 | 9.4651081 | 9.4844346 |
| 59 | 9.4655219 | 9.4848870 |
| 60 | 9.4659353 | 9.4853390 |

| Minut. | 73. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9817370 | 10.5283952 |
| 29 | 9.9816995 | 10.5279315 |
| 28 | 9.9816620 | 10.5274682 |
| 27 | 9.9816245 | 10.5270053 |
| 26 | 9.9815870 | 10.5265428 |
| 25 | 9.9815494 | 10.5260808 |
| 24 | 9.9815117 | 10.5256192 |
| 23 | 9.9814740 | 10.5251579 |
| 22 | 9.9814363 | 10.5246971 |
| 21 | 9.9813986 | 10.5242367 |
| 20 | 9.9813608 | 10.5237767 |
| 19 | 9.9813229 | 10.5233171 |
| 18 | 9.9812850 | 10.5228579 |
| 17 | 9.9812471 | 10.5223991 |
| 16 | 9.9812091 | 10.5219408 |
| 15 | 9.9811711 | 10.5214828 |
| 14 | 9.9811331 | 10.5210252 |
| 13 | 9.9810950 | 10.5205681 |
| 12 | 9.9810569 | 10.5201113 |
| 11 | 9.9810187 | 10.5196549 |
| 10 | 9.9809805 | 10.5191989 |
| 9 | 9.9809423 | 10.5187434 |
| 8 | 9.9809040 | 10.5182882 |
| 7 | 9.9808657 | 10.5178334 |
| 6 | 9.9808273 | 10.5173790 |
| 5 | 9.9807889 | 10.5169250 |
| 4 | 9.9807505 | 10.5164714 |
| 3 | 9.9807120 | 10.5160182 |
| 2 | 9.9806735 | 10.5155654 |
| 1 | 9.9806349 | 10.5151130 |
| 0 | 9.9805963 | 10.5146610 |

| Minut. | 17. Grad. | | Minut. | 72. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.4659353 | 9.4853390 | 60 | 9.9805963 | 10.5146610 |
| 1 | 9.4663483 | 9.4857907 | 59 | 9.9805577 | 10.5142093 |
| 2 | 9.4667609 | 9.4862419 | 58 | 9.9805190 | 10.5137581 |
| 3 | 9.4671730 | 9.4866928 | 57 | 9.9804803 | 10.5133072 |
| 4 | 9.4675848 | 9.4871433 | 56 | 9.9804415 | 10.5128567 |
| 5 | 9.4679960 | 9.4875933 | 55 | 9.9804027 | 10.5124067 |
| 6 | 9.4684069 | 9.4880430 | 54 | 9.9803639 | 10.5119570 |
| 7 | 9.4688173 | 9.4884924 | 53 | 9.9803250 | 10.5115076 |
| 8 | 9.4692273 | 9.4889413 | 52 | 9.9802860 | 10.5110587 |
| 9 | 9.4696369 | 9.4893898 | 51 | 9.9802471 | 10.5106102 |
| 10 | 9.4700461 | 9.4898380 | 50 | 9.9802081 | 10.5101620 |
| 11 | 9.4704548 | 9.4902858 | 49 | 9.9801690 | 10.5097142 |
| 12 | 9.4708631 | 9.4907332 | 48 | 9.9801299 | 10.5092668 |
| 13 | 9.4712710 | 9.4911802 | 47 | 9.9800908 | 10.5088198 |
| 14 | 9.4716785 | 9.4916269 | 46 | 9.9800516 | 10.5083731 |
| 15 | 9.4720856 | 9.4920731 | 45 | 9.9800124 | 10.5079269 |
| 16 | 9.4724922 | 9.4925190 | 44 | 9.9799732 | 10.5074810 |
| 17 | 9.4728985 | 9.4929646 | 43 | 9.9799339 | 10.5070354 |
| 18 | 9.4733043 | 9.4934097 | 42 | 9.9798946 | 10.5065903 |
| 19 | 9.4737097 | 9.4938545 | 41 | 9.9798552 | 10.5061455 |
| 20 | 9.4741146 | 9.4942988 | 40 | 9.9798158 | 10.5057012 |
| 21 | 9.4745192 | 9.4947429 | 39 | 9.9797764 | 10.5052571 |
| 22 | 9.4749234 | 9.4951865 | 38 | 9.9797369 | 10.5048135 |
| 23 | 9.4753271 | 9.4956298 | 37 | 9.9796973 | 10.5043702 |
| 24 | 9.4757304 | 9.4960727 | 36 | 9.9796578 | 10.5039273 |
| 25 | 9.4761334 | 9.4965152 | 35 | 9.9796182 | 10.5034848 |
| 26 | 9.4765359 | 9.4969574 | 34 | 9.9795785 | 10.5030426 |
| 27 | 9.4769380 | 9.4973991 | 33 | 9.9795388 | 10.5026009 |
| 28 | 9.4773396 | 9.4978406 | 32 | 9.9794991 | 10.5021594 |
| 29 | 9.4777409 | 9.4982816 | 31 | 9.9794593 | 10.5017184 |
| 30 | 9.4781418 | 9.4987223 | 30 | 9.9794195 | 10.5012777 |

| Minut. | 17. Grad. Log. Sin. | Log. Tang. | Minut. | 72. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.4781418 | 9.4987223 | 30 | 9.9794195 | 10.5012777 |
| 31 | 9.4785423 | 9.4991626 | 29 | 9.9793796 | 10.5008374 |
| 32 | 9.4789423 | 9.4996026 | 28 | 9.9793398 | 10.5003974 |
| 33 | 9.4793420 | 9.5000422 | 27 | 9.9792998 | 10.4999578 |
| 34 | 9.4797412 | 9.5004814 | 26 | 9.9792599 | 10.4995186 |
| 35 | 9.4801401 | 9.5009203 | 25 | 9.9792198 | 10.4990797 |
| 36 | 9.4805385 | 9.5013588 | 24 | 9.9791798 | 10.4986412 |
| 37 | 9.4809366 | 9.5017969 | 23 | 9.9791397 | 10.4982031 |
| 38 | 9.4813342 | 9.5022347 | 22 | 9.9790996 | 10.4977653 |
| 39 | 9.4817315 | 9.5026721 | 21 | 9.9790594 | 10.4973279 |
| 40 | 9.4821283 | 9.5031092 | 20 | 9.9790192 | 10.4968908 |
| 41 | 9.4825248 | 9.5035459 | 19 | 9.9789789 | 10.4964541 |
| 42 | 9.4829208 | 9.5039822 | 18 | 9.9789386 | 10.4960178 |
| 43 | 9.4833165 | 9.5044182 | 17 | 9.9788983 | 10.4955818 |
| 44 | 9.4837117 | 9.5048538 | 16 | 9.9788579 | 10.4951462 |
| 45 | 9.4841066 | 9.5052891 | 15 | 9.9788175 | 10.4947109 |
| 46 | 9.4845010 | 9.5057240 | 14 | 9.9787770 | 10.4942760 |
| 47 | 9.4848951 | 9.5061586 | 13 | 9.9787365 | 10.4938414 |
| 48 | 9.4852888 | 9.5065928 | 12 | 9.9786960 | 10.4934072 |
| 49 | 9.4856820 | 9.5070267 | 11 | 9.9786554 | 10.4929733 |
| 50 | 9.4860749 | 9.5074602 | 10 | 9.9786148 | 10.4925398 |
| 51 | 9.4864674 | 9.5078933 | 9 | 9.9785741 | 10.4921067 |
| 52 | 9.4868595 | 9.5083261 | 8 | 9.9785334 | 10.4916739 |
| 53 | 9.4872512 | 9.5087586 | 7 | 9.9784927 | 10.4912414 |
| 54 | 9.4876426 | 9.5091907 | 6 | 9.9784519 | 10.4908093 |
| 55 | 9.4880335 | 9.5096224 | 5 | 9.9784111 | 10.4903776 |
| 56 | 9.4884240 | 9.5100539 | 4 | 9.9783702 | 10.4899461 |
| 57 | 9.4888142 | 9.5104849 | 3 | 9.9783293 | 10.4895151 |
| 58 | 9.4892040 | 9.5109156 | 2 | 9.9782883 | 10.4890844 |
| 59 | 9.4895934 | 9.5113460 | 1 | 9.9782474 | 10.4886540 |
| 60 | 9.4899824 | 9.5117760 | 0 | 9.9782063 | 10.4882240 |

| Minut. | 18. Grad. Log. Sin. | Log. Tang. | Minut. | 71. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.4899824 | 9.5117760 | 60 | 9.9782063 | 10.4882240 |
| 1 | 9.4903710 | 9.5122057 | 59 | 9.9781653 | 10.4877943 |
| 2 | 9.4907592 | 9.5126351 | 58 | 9.9781241 | 10.4873649 |
| 3 | 9.4911471 | 9.5130641 | 57 | 9.9780830 | 10.4869359 |
| 4 | 9.4915345 | 9.5134927 | 56 | 9.9780418 | 10.4865073 |
| 5 | 9.4919216 | 9.5139210 | 55 | 9.9780006 | 10.4860790 |
| 6 | 9.4923083 | 9.5143490 | 54 | 9.9779593 | 10.4856510 |
| 7 | 9.4926946 | 9.5147766 | 53 | 9.9779180 | 10.4852234 |
| 8 | 9.4930806 | 9.5152039 | 52 | 9.9778767 | 10.4847961 |
| 9 | 9.4934661 | 9.5156309 | 51 | 9.9778353 | 10.4843691 |
| 10 | 9.4938513 | 9.5160575 | 50 | 9.9777938 | 10.4839425 |
| 11 | 9.4942361 | 9.5164838 | 49 | 9.9777523 | 10.4835162 |
| 12 | 9.4946205 | 9.5169097 | 48 | 9.9777108 | 10.4830903 |
| 13 | 9.4950046 | 9.5173353 | 47 | 9.9776693 | 10.4826647 |
| 14 | 9.4953883 | 9.5177606 | 46 | 9.9776277 | 10.4822394 |
| 15 | 9.4957716 | 9.5181855 | 45 | 9.9775860 | 10.4818145 |
| 16 | 9.4961545 | 9.5186102 | 44 | 9.9775444 | 10.4813899 |
| 17 | 9.4965370 | 9.5190344 | 43 | 9.9775026 | 10.4809656 |
| 18 | 9.4969192 | 9.5194583 | 42 | 9.9774609 | 10.4805417 |
| 19 | 9.4973010 | 9.5198819 | 41 | 9.9774191 | 10.4801181 |
| 20 | 9.4976824 | 9.5203052 | 40 | 9.9773772 | 10.4796948 |
| 21 | 9.4980635 | 9.5207282 | 39 | 9.9773354 | 10.4792718 |
| 22 | 9.4984442 | 9.5211508 | 38 | 9.9772934 | 10.4788492 |
| 23 | 9.4988245 | 9.5215730 | 37 | 9.9772515 | 10.4784270 |
| 24 | 9.4992045 | 9.5219950 | 36 | 9.9772095 | 10.4780050 |
| 25 | 9.4995840 | 9.5224166 | 35 | 9.9771674 | 10.4775834 |
| 26 | 9.4999633 | 9.5228379 | 34 | 9.9771253 | 10.4771621 |
| 27 | 9.5003421 | 9.5232589 | 33 | 9.9770832 | 10.4767411 |
| 28 | 9.5007206 | 9.5236795 | 32 | 9.9770410 | 10.4763205 |
| 29 | 9.5010987 | 9.5240999 | 31 | 9.9769988 | 10.4759001 |
| 30 | 9.5014764 | 9.5245199 | 30 | 9.9769566 | 10.4754801 |

| Minut. | 14. Grad. | | Minut. | 75. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.3985996 | 9.4126581 | 30 | 9.9859416 | 10.5873419 |
| 31 | 9.3990878 | 9.4131789 | 29 | 9.9859089 | 10.5868211 |
| 32 | 9.3995754 | 9.4136993 | 28 | 9.9858762 | 10.5863007 |
| 33 | 9.4000625 | 9.4142191 | 27 | 9.9858434 | 10.5857809 |
| 34 | 9.4005489 | 9.4147383 | 26 | 9.9858106 | 10.5852617 |
| 35 | 9.4010348 | 9.4152570 | 25 | 9.9857777 | 10.5847430 |
| 36 | 9.4015201 | 9.4157752 | 24 | 9.9857449 | 10.5842248 |
| 37 | 9.4020048 | 9.4162928 | 23 | 9.9857119 | 10.5837072 |
| 38 | 9.4024889 | 9.4168099 | 22 | 9.9856790 | 10.5831901 |
| 39 | 9.4029724 | 9.4173265 | 21 | 9.9856460 | 10.5826735 |
| 40 | 9.4034554 | 9.4178425 | 20 | 9.9856129 | 10.5821575 |
| 41 | 9.4039378 | 9.4183580 | 19 | 9.9855798 | 10.5816420 |
| 42 | 9.4044196 | 9.4188729 | 18 | 9.9855467 | 10.5811271 |
| 43 | 9.4049009 | 9.4193874 | 17 | 9.9855135 | 10.5806126 |
| 44 | 9.4053816 | 9.4199013 | 16 | 9.9854803 | 10.5800987 |
| 45 | 9.4058617 | 9.4204146 | 15 | 9.9854471 | 10.5795854 |
| 46 | 9.4063413 | 9.4209275 | 14 | 9.9854138 | 10.5790725 |
| 47 | 9.4068203 | 9.4214398 | 13 | 9.9853805 | 10.5785602 |
| 48 | 9.4072987 | 9.4219515 | 12 | 9.9853471 | 10.5780485 |
| 49 | 9.4077766 | 9.4224628 | 11 | 9.9853138 | 10.5775372 |
| 50 | 9.4082539 | 9.4229735 | 10 | 9.9852803 | 10.5770265 |
| 51 | 9.4087306 | 9.4234838 | 9 | 9.9852468 | 10.5765162 |
| 52 | 9.4092068 | 9.4239935 | 8 | 9.9852133 | 10.5760065 |
| 53 | 9.4096824 | 9.4245026 | 7 | 9.9851798 | 10.5754974 |
| 54 | 9.4101575 | 9.4250113 | 6 | 9.9851462 | 10.5749887 |
| 55 | 9.4106320 | 9.4255194 | 5 | 9.9851125 | 10.5744806 |
| 56 | 9.4111059 | 9.4260271 | 4 | 9.9850789 | 10.5739729 |
| 57 | 9.4115793 | 9.4265342 | 3 | 9.9850452 | 10.5734658 |
| 58 | 9.4120522 | 9.4270408 | 2 | 9.9850114 | 10.5729592 |
| 59 | 9.4125245 | 9.4275469 | 1 | 9.9849776 | 10.5724531 |
| 60 | 9.4129962 | 9.4280525 | 0 | 9.9849438 | 10.5719475 |

| Minut. | 15. Grad. Log. Sin. | Log. Tang. | Minut. | 74. Grad. Log. Sin. | Log. Tang |
|---|---|---|---|---|---|
| 0 | 9.4129962 | 9.4280525 | 60 | 9.9849438 | 10.5719475 |
| 1 | 9.4134674 | 9.4285575 | 59 | 9.9849099 | 10.5714425 |
| 2 | 9.4139381 | 9.4290621 | 58 | 9.9848760 | 10.5709379 |
| 3 | 9.4144082 | 9.4295661 | 57 | 9.9848420 | 10.5704339 |
| 4 | 9.4148778 | 9.4300697 | 56 | 9.9848081 | 10.5699303 |
| 5 | 9.4153468 | 9.4305727 | 55 | 9.9847740 | 10.5694273 |
| 6 | 9.4158152 | 9.4310753 | 54 | 9.9847400 | 10.5689247 |
| 7 | 9.4162832 | 9.4315773 | 53 | 9.9847059 | 10.5684227 |
| 8 | 9.4167506 | 9.4320789 | 52 | 9.9846717 | 10.5679211 |
| 9 | 9.4172174 | 9.4325799 | 51 | 9.9846375 | 10.5674201 |
| 10 | 9.4176837 | 9.4330804 | 50 | 9.9846033 | 10.5669196 |
| 11 | 9.4181495 | 9.4335805 | 49 | 9.9845690 | 10.5664195 |
| 12 | 9.4186148 | 9.4340800 | 48 | 9.9845347 | 10.5659200 |
| 13 | 9.4190795 | 9.4345791 | 47 | 9.9845004 | 10.5654209 |
| 14 | 9.4195436 | 9.4350776 | 46 | 9.9844660 | 10.5649224 |
| 15 | 9.4200073 | 9.4355757 | 45 | 9.9844316 | 10.5644243 |
| 16 | 9.4204704 | 9.4360733 | 44 | 9.9843971 | 10.5639267 |
| 17 | 9.4209330 | 9.4365704 | 43 | 9.9843626 | 10.5634296 |
| 18 | 9.4213950 | 9.4370670 | 42 | 9.9843281 | 10.5629330 |
| 19 | 9.4218566 | 9.4375631 | 41 | 9.9842935 | 10.5624369 |
| 20 | 9.4223176 | 9.4380587 | 40 | 9.9842589 | 10.5619413 |
| 21 | 9.4227780 | 9.4385538 | 39 | 9.9842242 | 10.5614462 |
| 22 | 9.4232380 | 9.4390485 | 38 | 9.9841895 | 10.5609515 |
| 23 | 9.4236974 | 9.4395426 | 37 | 9.9841548 | 10.5604574 |
| 24 | 9.4241563 | 9.4400363 | 36 | 9.9841200 | 10.5599637 |
| 25 | 9.4246147 | 9.4405295 | 35 | 9.9840852 | 10.5594705 |
| 26 | 9.4250726 | 9.4410222 | 34 | 9.9840503 | 10.5589778 |
| 27 | 9.4255299 | 9.4415145 | 33 | 9.9840154 | 10.5584855 |
| 28 | 9.4259867 | 9.4420062 | 32 | 9.9839805 | 10.5579938 |
| 29 | 9.4264430 | 9.4424975 | 31 | 9.9839455 | 10.5575025 |
| 30 | 9.4268988 | 9.4429883 | 30 | 9.9839105 | 10.5570117 |

| Minut. | 15. Grad. | | Minut. | 74. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.4268988 | 9.4429883 | 30 | 9.9839105 | 10.5570117 |
| 31 | 9.4273541 | 9.4434786 | 29 | 9.9838755 | 10.5565214 |
| 32 | 9.4278089 | 9.4439685 | 28 | 9.9838404 | 10.5560315 |
| 33 | 9.4282631 | 9.4444579 | 27 | 9.9838052 | 10.5555421 |
| 34 | 9.4287169 | 9.4449468 | 26 | 9.9837701 | 10.5550532 |
| 35 | 9.4291701 | 9.4454352 | 25 | 9.9837348 | 10.5545648 |
| 36 | 9.4296228 | 9.4459232 | 24 | 9.9836996 | 10.5540768 |
| 37 | 9.4300750 | 9.4464107 | 23 | 9.9836643 | 10.5535893 |
| 38 | 9.4305267 | 9.4468978 | 22 | 9.9836290 | 10.5531022 |
| 39 | 9.4309779 | 9.4473843 | 21 | 9.9835936 | 10.5526157 |
| 40 | 9.4314286 | 9.4478704 | 20 | 9.9835582 | 10.5521296 |
| 41 | 9.4318788 | 9.4483561 | 19 | 9.9835227 | 10.5516439 |
| 42 | 9.4323285 | 9.4488413 | 18 | 9.9834872 | 10.5511587 |
| 43 | 9.4327777 | 9.4493260 | 17 | 9.9834517 | 10.5506740 |
| 44 | 9.4332264 | 9.4498102 | 16 | 9.9834161 | 10.5501898 |
| 45 | 9.4336746 | 9.4502940 | 15 | 9.9833805 | 10.5497060 |
| 46 | 9.4341223 | 9.4507774 | 14 | 9.9833449 | 10.5492226 |
| 47 | 9.4345694 | 9.4512602 | 13 | 9.9833092 | 10.5487398 |
| 48 | 9.4350161 | 9.4517427 | 12 | 9.9832735 | 10.5482573 |
| 49 | 9.4354623 | 9.4522246 | 11 | 9.9832377 | 10.5477754 |
| 50 | 9.4359080 | 9.4527061 | 10 | 9.9832019 | 10.5472939 |
| 51 | 9.4363532 | 9.4531872 | 9 | 9.9831661 | 10.5468128 |
| 52 | 9.4367980 | 9.4536678 | 8 | 9.9831302 | 10.5463322 |
| 53 | 9.4372422 | 9.4541479 | 7 | 9.9830942 | 10.5458521 |
| 54 | 9.4376859 | 9.4546276 | 6 | 9.9830583 | 10.5453724 |
| 55 | 9.4381292 | 9.4551069 | 5 | 9.9830223 | 10.5448931 |
| 56 | 9.4385719 | 9.4555857 | 4 | 9.9829862 | 10.5444143 |
| 57 | 9.4390142 | 9.4560641 | 3 | 9.9829501 | 10.5439359 |
| 58 | 9.4394560 | 9.4565420 | 2 | 9.9829140 | 10.5434580 |
| 59 | 9.4398973 | 9.4570194 | 1 | 9.9828778 | 10.5429806 |
| 60 | 9.4403381 | 9.4574964 | 0 | 9.9828416 | 10.5425036 |

| Minut. | 16. Grad. | | Minut. | 73. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.4403381 | 9.4574964 | 60 | 9.9828416 | 10.5425036 |
| 1 | 9.4407784 | 9.4579730 | 59 | 9.9828054 | 10.5420270 |
| 2 | 9.4412182 | 9.4584491 | 58 | 9.9827691 | 10.5415509 |
| 3 | 9.4416576 | 9.4589248 | 57 | 9.9827328 | 10.5410752 |
| 4 | 9.4420965 | 9.4594001 | 56 | 9.9826964 | 10.5405999 |
| 5 | 9.4425349 | 9.4598749 | 55 | 9.9826600 | 10.5401251 |
| 6 | 9.4429728 | 9.4603492 | 54 | 9.9826236 | 10.5396508 |
| 7 | 9.4434103 | 9.4608232 | 53 | 9.9825871 | 10.5391768 |
| 8 | 9.4438472 | 9.4612967 | 52 | 9.9825506 | 10.5387033 |
| 9 | 9.4442837 | 9.4617697 | 51 | 9.9825140 | 10.5382303 |
| 10 | 9.4447197 | 9.4622423 | 50 | 9.9824774 | 10.5377577 |
| 11 | 9.4451553 | 9.4627145 | 49 | 9.9824408 | 10.5372855 |
| 12 | 9.4455904 | 9.4631863 | 48 | 9.9824041 | 10.5368137 |
| 13 | 9.4460250 | 9.4636576 | 47 | 9.9823674 | 10.5363424 |
| 14 | 9.4464591 | 9.4641285 | 46 | 9.9823306 | 10.5358715 |
| 15 | 9.4468927 | 9.4645990 | 45 | 9.9822938 | 10.5354010 |
| 16 | 9.4473259 | 9.4650690 | 44 | 9.9822569 | 10.5349310 |
| 17 | 9.4477586 | 9.4655386 | 43 | 9.9822201 | 10.5344614 |
| 18 | 9.4481909 | 9.4660078 | 42 | 9.9821831 | 10.5339922 |
| 19 | 9.4486227 | 9.4664765 | 41 | 9.9821462 | 10.5335235 |
| 20 | 9.4490540 | 9.4669448 | 40 | 9.9821092 | 10.5330552 |
| 21 | 9.4494849 | 9.4674127 | 39 | 9.9820721 | 10.5325873 |
| 22 | 9.4499153 | 9.4678802 | 38 | 9.9820351 | 10.5321198 |
| 23 | 9.4503452 | 9.4683473 | 37 | 9.9819979 | 10.5316527 |
| 24 | 9.4507747 | 9.4688139 | 36 | 9.9819608 | 10.5311861 |
| 25 | 9.4512037 | 9.4692801 | 35 | 9.9819236 | 10.5307199 |
| 26 | 9.4516322 | 9.4697459 | 34 | 9.9818863 | 10.5302541 |
| 27 | 9.4520603 | 9.4702112 | 33 | 9.9818490 | 10.5297888 |
| 28 | 9.4524879 | 9.4706762 | 32 | 9.9818117 | 10.5293238 |
| 29 | 9.4529151 | 9.4711407 | 31 | 9.9817744 | 10.5288593 |
| 30 | 9.4533418 | 9.4716048 | 30 | 9.9817370 | 10.5283952 |

| Minut. | 16. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.4533418 | 9.4716048 |
| 31 | 9.4537681 | 9.4720685 |
| 32 | 9.4541939 | 9.4725318 |
| 33 | 9.4546192 | 9.4729947 |
| 34 | 9.4550441 | 9.4734571 |
| 35 | 9.4554686 | 9.4739192 |
| 36 | 9.4558926 | 9.4743808 |
| 37 | 9.4563161 | 9.4748421 |
| 38 | 9.4567392 | 9.4753029 |
| 39 | 9.4571618 | 9.4757633 |
| 40 | 9.4575840 | 9.4762233 |
| 41 | 9.4580058 | 9.4766829 |
| 42 | 9.4584271 | 9.4771421 |
| 43 | 9.4588480 | 9.4776009 |
| 44 | 9.4592684 | 9.4780592 |
| 45 | 9.4596884 | 9.4785172 |
| 46 | 9.4601079 | 9.4789748 |
| 47 | 9.4605270 | 9.4794319 |
| 48 | 9.4609456 | 9.4798887 |
| 49 | 9.4613638 | 9.4803451 |
| 50 | 9.4617816 | 9.4808011 |
| 51 | 9.4621989 | 9.4812566 |
| 52 | 9.4626158 | 9.4817118 |
| 53 | 9.4630323 | 9.4821666 |
| 54 | 9.4634483 | 9.4826210 |
| 55 | 9.4638639 | 9.4830750 |
| 56 | 9.4642790 | 9.4835286 |
| 57 | 9.4646938 | 9.4839818 |
| 58 | 9.4651081 | 9.4844346 |
| 59 | 9.4655219 | 9.4848870 |
| 60 | 9.4659353 | 9.4853390 |

| Minut. | 73. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9817370 | 10.5283952 |
| 29 | 9.9816995 | 10.5279315 |
| 28 | 9.9816620 | 10.5274682 |
| 27 | 9.9816245 | 10.5270053 |
| 26 | 9.9815870 | 10.5265428 |
| 25 | 9.9815494 | 10.5260808 |
| 24 | 9.9815117 | 10.5256192 |
| 23 | 9.9814740 | 10.5251579 |
| 22 | 9.9814363 | 10.5246971 |
| 21 | 9.9813986 | 10.5242367 |
| 20 | 9.9813608 | 10.5237767 |
| 19 | 9.9813229 | 10.5233171 |
| 18 | 9.9812850 | 10.5228579 |
| 17 | 9.9812471 | 10.5223991 |
| 16 | 9.9812091 | 10.5219408 |
| 15 | 9.9811711 | 10.5214828 |
| 14 | 9.9811331 | 10.5210252 |
| 13 | 9.9810950 | 10.5205681 |
| 12 | 9.9810569 | 10.5201113 |
| 11 | 9.9810187 | 10.5196549 |
| 10 | 9.9809805 | 10.5191985 |
| 9 | 9.9809423 | 10.5187434 |
| 8 | 9.9809040 | 10.5182882 |
| 7 | 9.9808657 | 10.5178334 |
| 6 | 9.9808273 | 10.5173790 |
| 5 | 9.9807889 | 10.5169250 |
| 4 | 9.9807505 | 10.5164714 |
| 3 | 9.9807120 | 10.5160182 |
| 2 | 9.9806735 | 10.5155654 |
| 1 | 9.9806349 | 10.5151130 |
| 0 | 9.9805963 | 10.5146610 |

| Minut. | 17. Grad. | | Minut. | 72. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.4659353 | 9.4853390 | 60 | 9.9805963 | 10.5146610 |
| 1 | 9.4663483 | 9.4857907 | 59 | 9.9805577 | 10.5142093 |
| 2 | 9.4667609 | 9.4862419 | 58 | 9.9805190 | 10.5137581 |
| 3 | 9.4671730 | 9.4866928 | 57 | 9.9804803 | 10.5133072 |
| 4 | 9.4675848 | 9.4871433 | 56 | 9.9804415 | 10.5128567 |
| 5 | 9.4679960 | 9.4875933 | 55 | 9.9804027 | 10.5124067 |
| 6 | 9.4684069 | 9.4880430 | 54 | 9.9803639 | 10.5119570 |
| 7 | 9.4688173 | 9.4884924 | 53 | 9.9803250 | 10.5115076 |
| 8 | 9.4692273 | 9.4889413 | 52 | 9.9802860 | 10.5110587 |
| 9 | 9.4696369 | 9.4893898 | 51 | 9.9802471 | 10.5106102 |
| 10 | 9.4700461 | 9.4898380 | 50 | 9.9802081 | 10.5101620 |
| 11 | 9.4704548 | 9.4902858 | 49 | 9.9801690 | 10.5097142 |
| 12 | 9.4708631 | 9.4907332 | 48 | 9.9801299 | 10.5092668 |
| 13 | 9.4712710 | 9.4911802 | 47 | 9.9800908 | 10.5088198 |
| 14 | 9.4716785 | 9.4916269 | 46 | 9.9800516 | 10.5083731 |
| 15 | 9.4720856 | 9.4920731 | 45 | 9.9800124 | 10.5079269 |
| 16 | 9.4724922 | 9.4925190 | 44 | 9.9799732 | 10.5074810 |
| 17 | 9.4728985 | 9.4929646 | 43 | 9.9799339 | 10.5070354 |
| 18 | 9.4733043 | 9.4934097 | 42 | 9.9798946 | 10.5065903 |
| 19 | 9.4737097 | 9.4938545 | 41 | 9.9798552 | 10.5061455 |
| 20 | 9.4741146 | 9.4942988 | 40 | 9.9798158 | 10.5057012 |
| 21 | 9.4745192 | 9.4947429 | 39 | 9.9797764 | 10.5052571 |
| 22 | 9.4749234 | 9.4951865 | 38 | 9.9797369 | 10.5048135 |
| 23 | 9.4753271 | 9.4956298 | 37 | 9.9796973 | 10.5043702 |
| 24 | 9.4757304 | 9.4960727 | 36 | 9.9796578 | 10.5039273 |
| 25 | 9.4761334 | 9.4965152 | 35 | 9.9796182 | 10.5034848 |
| 26 | 9.4765359 | 9.4969574 | 34 | 9.9795785 | 10.5030426 |
| 27 | 9.4769380 | 9.4973991 | 33 | 9.9795388 | 10.5026009 |
| 28 | 9.4773396 | 9.4978406 | 32 | 9.9794991 | 10.5021594 |
| 29 | 9.4777409 | 9.4982816 | 31 | 9.9794593 | 10.5017184 |
| 30 | 9.4781418 | 9.4987223 | 30 | 9.9794195 | 10.5012777 |

| Minut. | 17. Grad. | | Minut. | 72. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.4781418 | 9.4987223 | 30 | 9.9794195 | 10.5012777 |
| 31 | 9.4785423 | 9.4991626 | 29 | 9.9793796 | 10.5008374 |
| 32 | 9.4789423 | 9.4996026 | 28 | 9.9793398 | 10.5003974 |
| 33 | 9.4793420 | 9.5000422 | 27 | 9.9792998 | 10.4999578 |
| 34 | 9.4797412 | 9.5004814 | 26 | 9.9792599 | 10.4995186 |
| 35 | 9.4801401 | 9.5009203 | 25 | 9.9792198 | 10.4990797 |
| 36 | 9.4805385 | 9.5013588 | 24 | 9.9791798 | 10.4986412 |
| 37 | 9.4809366 | 9.5017969 | 23 | 9.9791397 | 10.4982031 |
| 38 | 9.4813342 | 9.5022347 | 22 | 9.9790996 | 10.4977653 |
| 39 | 9.4817315 | 9.5026721 | 21 | 9.9790594 | 10.4973279 |
| 40 | 9.4821283 | 9.5031092 | 20 | 9.9790192 | 10.4968908 |
| 41 | 9.4825248 | 9.5035459 | 19 | 9.9789789 | 10.4964541 |
| 42 | 9.4829208 | 9.5039822 | 18 | 9.9789386 | 10.4960178 |
| 43 | 9.4833165 | 9.5044182 | 17 | 9.9788983 | 10.4955819 |
| 44 | 9.4837117 | 9.5048538 | 16 | 9.9788579 | 10.4951462 |
| 45 | 9.4841066 | 9.5052891 | 15 | 9.9788175 | 10.4947109 |
| 46 | 9.4845010 | 9.5057240 | 14 | 9.9787770 | 10.4942760 |
| 47 | 9.4848951 | 9.5061586 | 13 | 9.9787365 | 10.4938414 |
| 48 | 9.4852888 | 9.5065928 | 12 | 9.9786960 | 10.4934072 |
| 49 | 9.4856820 | 9.5070267 | 11 | 9.9786554 | 10.4929733 |
| 50 | 9.4860749 | 9.5074602 | 10 | 9.9786148 | 10.4925398 |
| 51 | 9.4864674 | 9.5078933 | 9 | 9.9785741 | 10.4921067 |
| 52 | 9.4868595 | 9.5083261 | 8 | 9.9785334 | 10.4916739 |
| 53 | 9.4872512 | 9.5087586 | 7 | 9.9784927 | 10.4912414 |
| 54 | 9.4876426 | 9.5091907 | 6 | 9.9784519 | 10.4908093 |
| 55 | 9.4880335 | 9.5096224 | 5 | 9.9784111 | 10.4903777 |
| 56 | 9.4884240 | 9.5100539 | 4 | 9.9783702 | 10.4899464 |
| 57 | 9.4888142 | 9.5104849 | 3 | 9.9783293 | 10.4895157 |
| 58 | 9.4892040 | 9.5109156 | 2 | 9.9782883 | 10.4890854 |
| 59 | 9.4895934 | 9.5113460 | 1 | 9.9782474 | 10.4886554 |
| 60 | 9.4899824 | 9.5117760 | 0 | 9.9782063 | 10.4882259 |

| Minut. | 18. Grad. | | | Minut. | 71. Grad. | |
|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | | Log. Sin. | Log. Tang. |
| 0 | 9.4899824 | 9.5117760 | | 60 | 9.9782063 | 10.4882240 |
| 1 | 9.4903710 | 9.5122057 | | 59 | 9.9781653 | 10.4877943 |
| 2 | 9.4907592 | 9.5126351 | | 58 | 9.9781241 | 10.4873649 |
| 3 | 9.4911471 | 9.5130641 | | 57 | 9.9780830 | 10.4869359 |
| 4 | 9.4915345 | 9.5134927 | | 56 | 9.9780418 | 10.4865073 |
| 5 | 9.4919216 | 9.5139210 | | 55 | 9.9780006 | 10.4860790 |
| 6 | 9.4923083 | 9.5143490 | | 54 | 9.9779593 | 10.4856510 |
| 7 | 9.4926946 | 9.5147766 | | 53 | 9.9779180 | 10.4852234 |
| 8 | 9.4930806 | 9.5152039 | | 52 | 9.9778767 | 10.4847961 |
| 9 | 9.4934661 | 9.5156309 | | 51 | 9.9778353 | 10.4843691 |
| 10 | 9.4938513 | 9.5160575 | | 50 | 9.9777938 | 10.4839425 |
| 11 | 9.4942361 | 9.5164838 | | 49 | 9.9777523 | 10.4835162 |
| 12 | 9.4946205 | 9.5169097 | | 48 | 9.9777108 | 10.4830903 |
| 13 | 9.4950046 | 9.5173353 | | 47 | 9.9776693 | 10.4826647 |
| 14 | 9.4953883 | 9.5177606 | | 46 | 9.9776277 | 10.4822394 |
| 15 | 9.4957716 | 9.5181855 | | 45 | 9.9775860 | 10.4818145 |
| 16 | 9.4961545 | 9.5186102 | | 44 | 9.9775444 | 10.4813899 |
| 17 | 9.4965370 | 9.5190344 | | 43 | 9.9775026 | 10.4809656 |
| 18 | 9.4969192 | 9.5194583 | | 42 | 9.9774609 | 10.4805417 |
| 19 | 9.4973010 | 9.5198819 | | 41 | 9.9774191 | 10.4801181 |
| 20 | 9.4976824 | 9.5203052 | | 40 | 9.9773772 | 10.4796948 |
| 21 | 9.4980635 | 9.5207282 | | 39 | 9.9773354 | 10.4792718 |
| 22 | 9.4984442 | 9.5211508 | | 38 | 9.9772934 | 10.4788492 |
| 23 | 9.4988245 | 9.5215730 | | 37 | 9.9772515 | 10.4784270 |
| 24 | 9.4992045 | 9.5219950 | | 36 | 9.9772095 | 10.4780050 |
| 25 | 9.4995840 | 9.5224166 | | 35 | 9.9771674 | 10.4775834 |
| 26 | 9.4999633 | 9.5228379 | | 34 | 9.9771253 | 10.4771621 |
| 27 | 9.5003421 | 9.5232589 | | 33 | 9.9770832 | 10.4767411 |
| 28 | 9.5007206 | 9.5236795 | | 32 | 9.9770410 | 10.4763205 |
| 29 | 9.5010987 | 9.5240999 | | 31 | 9.9769988 | 10.4759001 |
| 30 | 9.5014764 | 9.5245199 | | 30 | 9.9769566 | 10.4754801 |

| Minut. | 18. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.5014764 | 9.5245199 |
| 31 | 9.5018538 | 9.5249395 |
| 32 | 9.5022308 | 9.5253589 |
| 33 | 9.5026075 | 9.5257779 |
| 34 | 9.5029838 | 9.5261966 |
| 35 | 9.5033597 | 9.5266150 |
| 36 | 9.5037353 | 9.5270331 |
| 37 | 9.5041105 | 9.5274508 |
| 38 | 9.5044853 | 9.5278682 |
| 39 | 9.5048598 | 9.5282853 |
| 40 | 9.5052339 | 9.5287021 |
| 41 | 9.5056077 | 9.5291186 |
| 42 | 9.5059811 | 9.5295347 |
| 43 | 9.5063542 | 9.5299505 |
| 44 | 9.5067268 | 9.5303661 |
| 45 | 9.5070992 | 9.5307813 |
| 46 | 9.5074712 | 9.5311961 |
| 47 | 9.5078428 | 9.5316107 |
| 48 | 9.5082141 | 9.5320250 |
| 49 | 9.5085850 | 9.5324389 |
| 50 | 9.5089556 | 9.5328526 |
| 51 | 9.5093258 | 9.5332659 |
| 52 | 9.5096956 | 9.5336789 |
| 53 | 9.5100651 | 9.5340916 |
| 54 | 9.5104343 | 9.5345040 |
| 55 | 9.5108031 | 9.5349161 |
| 56 | 9.5111716 | 9.5353278 |
| 57 | 9.5115397 | 9.5357393 |
| 58 | 9.5119074 | 9.5361505 |
| 59 | 9.5122749 | 9.5365613 |
| 60 | 9.5126419 | 9.5369719 |

| Minut. | 71. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.9769566 | 10.4754801 |
| 29 | 9.9769143 | 10.4750605 |
| 28 | 9.9768720 | 10.4746411 |
| 27 | 9.9768296 | 10.4742221 |
| 26 | 9.9767872 | 10.4738034 |
| 25 | 9.9767447 | 10.4733850 |
| 24 | 9.9767022 | 10.4729669 |
| 23 | 9.9766597 | 10.4725492 |
| 22 | 9.9766171 | 10.4721318 |
| 21 | 9.9765745 | 10.4717147 |
| 20 | 9.9765318 | 10.4712979 |
| 19 | 9.9764891 | 10.4708814 |
| 18 | 9.9764464 | 10.4704653 |
| 17 | 9.9764036 | 10.4700495 |
| 16 | 9.9763608 | 10.4696339 |
| 15 | 9.9763179 | 10.4692187 |
| 14 | 9.9762750 | 10.4688039 |
| 13 | 9.9762321 | 10.4683893 |
| 12 | 9.9761891 | 10.4679750 |
| 11 | 9.9761461 | 10.4675611 |
| 10 | 9.9761030 | 10.4671474 |
| 9 | 9.9760599 | 10.4667341 |
| 8 | 9.9760167 | 10.4663211 |
| 7 | 9.9759736 | 10.4659084 |
| 6 | 9.9759303 | 10.4654960 |
| 5 | 9.9758870 | 10.4650839 |
| 4 | 9.9758437 | 10.4646722 |
| 3 | 9.9758004 | 10.4642607 |
| 2 | 9.9757570 | 10.4638495 |
| 1 | 9.9757135 | 10.4634387 |
| 0 | 9.9756701 | 10.4630281 |

| Minut. | 19. Grad. | | Minut. | 70. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.5126419 | 9.5369718 | 60 | 9.9756701 | 10.4630281 |
| 1 | 9.5130086 | 9.5373821 | 59 | 9.9756265 | 10.4626179 |
| 2 | 9.5133750 | 9.5377920 | 58 | 9.9755830 | 10.4622080 |
| 3 | 9.5137410 | 9.5382017 | 57 | 9.9755394 | 10.4617983 |
| 4 | 9.5141067 | 9.5386110 | 56 | 9.9754957 | 10.4613890 |
| 5 | 9.5144721 | 9.5390200 | 55 | 9.9754521 | 10.4609800 |
| 6 | 9.5148371 | 9.5394287 | 54 | 9.9754083 | 10.4605713 |
| 7 | 9.5152017 | 9.5398371 | 53 | 9.9753646 | 10.4601629 |
| 8 | 9.5155660 | 9.5402453 | 52 | 9.9753208 | 10.4597547 |
| 9 | 9.5159300 | 9.5406531 | 51 | 9.9752769 | 10.4593469 |
| 10 | 9.5162936 | 9.5410606 | 50 | 9.9752330 | 10.4589394 |
| 11 | 9.5166569 | 9.5414678 | 49 | 9.9751891 | 10.4585322 |
| 12 | 9.5170198 | 9.5418747 | 48 | 9.9751451 | 10.4581253 |
| 13 | 9.5173824 | 9.5422813 | 47 | 9.9751011 | 10.4577187 |
| 14 | 9.5177447 | 9.5426877 | 46 | 9.9750570 | 10.4573123 |
| 15 | 9.5181066 | 9.5430937 | 45 | 9.9750129 | 10.4569063 |
| 16 | 9.5184682 | 9.5434994 | 44 | 9.9749688 | 10.4565006 |
| 17 | 9.5188295 | 9.5439048 | 43 | 9.9749246 | 10.4560952 |
| 18 | 9.5191904 | 9.5443100 | 42 | 9.9748804 | 10.4556900 |
| 19 | 9.5195510 | 9.5447148 | 41 | 9.9748361 | 10.4552852 |
| 20 | 9.5199112 | 9.5451193 | 40 | 9.9747918 | 10.4548807 |
| 21 | 9.5202711 | 9.5455236 | 39 | 9.9747476 | 10.4544764 |
| 22 | 9.5206307 | 9.5459276 | 38 | 9.9747031 | 10.4540724 |
| 23 | 9.5209899 | 9.5463312 | 37 | 9.9746587 | 10.4536688 |
| 24 | 9.5213488 | 9.5467346 | 36 | 9.9746142 | 10.4532654 |
| 25 | 9.5217074 | 9.5471377 | 35 | 9.9745697 | 10.4528623 |
| 26 | 9.5220656 | 9.5475405 | 34 | 9.9745252 | 10.4524595 |
| 27 | 9.5224235 | 9.5479430 | 33 | 9.9744806 | 10.4520570 |
| 28 | 9.5227811 | 9.5483452 | 32 | 9.9744359 | 10.4516548 |
| 29 | 9.5231383 | 9.5487471 | 31 | 9.9743913 | 10.4512529 |
| 30 | 9.5234953 | 9.5491487 | 30 | 9.9743466 | 10.4508513 |

| Minut. | 19. Grad. | | Minut. | 70. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.5234953 | 9.5491487 | 30 | 9.9743466 | 10.4508513 |
| 31 | 9.5238518 | 9.5495500 | 29 | 9.9743018 | 10.4504500 |
| 32 | 9.5242081 | 9.5499511 | 28 | 9.9742570 | 10.4500489 |
| 33 | 9.5245640 | 9.5503519 | 27 | 9.9742122 | 10.4496481 |
| 34 | 9.5249196 | 9.5507523 | 26 | 9.9741673 | 10.4492477 |
| 35 | 9.5252749 | 9.5511525 | 25 | 9.9741224 | 10.4488475 |
| 36 | 9.5256298 | 9.5515524 | 24 | 9.9740774 | 10.4484476 |
| 37 | 9.5259844 | 9.5519521 | 23 | 9.9740324 | 10.4480479 |
| 38 | 9.5263387 | 9.5523514 | 22 | 9.9739873 | 10.4476486 |
| 39 | 9.5266927 | 9.5527504 | 21 | 9.9739422 | 10.4472496 |
| 40 | 9.5270463 | 9.5531492 | 20 | 9.9738971 | 10.4468508 |
| 41 | 9.5273997 | 9.5535477 | 19 | 9.9738519 | 10.4464523 |
| 42 | 9.5277526 | 9.5539459 | 18 | 9.9738067 | 10.4460541 |
| 43 | 9.5281053 | 9.5543438 | 17 | 9.9737615 | 10.4456562 |
| 44 | 9.5284577 | 9.5547415 | 16 | 9.9737162 | 10.4452585 |
| 45 | 9.5288097 | 9.5551388 | 15 | 9.9736709 | 10.4448612 |
| 46 | 9.5291614 | 9.5555359 | 14 | 9.9736255 | 10.4444641 |
| 47 | 9.5295128 | 9.5559327 | 13 | 9.9735801 | 10.4440673 |
| 48 | 9.5298638 | 9.5563292 | 12 | 9.9735346 | 10.4436708 |
| 49 | 9.5302146 | 9.5567255 | 11 | 9.9734891 | 10.4432745 |
| 50 | 9.5305650 | 9.5571214 | 10 | 9.9734435 | 10.4428786 |
| 51 | 9.5309151 | 9.5575171 | 9 | 9.9733980 | 10.4424829 |
| 52 | 9.5312649 | 9.5579125 | 8 | 9.9733523 | 10.4420875 |
| 53 | 9.5316143 | 9.5583077 | 7 | 9.9733067 | 10.4416923 |
| 54 | 9.5319635 | 9.5587025 | 6 | 9.9732610 | 10.4412975 |
| 55 | 9.5323123 | 9.5590971 | 5 | 9.9732152 | 10.4409029 |
| 56 | 9.5326608 | 9.5594914 | 4 | 9.9731694 | 10.4405086 |
| 57 | 9.5330090 | 9.5598854 | 3 | 9.9731236 | 10.4401146 |
| 58 | 9.5333569 | 9.5602792 | 2 | 9.9730777 | 10.4397208 |
| 59 | 9.5337044 | 9.5606727 | 1 | 9.9730318 | 10.4393273 |
| 60 | 9.5340517 | 9.5610659 | 0 | 9.9729858 | 10.4389341 |

| Minut. | 20. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 0 | 9.5340517 | 9.5610659 |
| 1 | 9.5343986 | 9.5614588 |
| 2 | 9.5347452 | 9.5618515 |
| 3 | 9.5350915 | 9.5622439 |
| 4 | 9.5354375 | 9.5626360 |
| 5 | 9.5357832 | 9.5630278 |
| 6 | 9.5361286 | 9.5634194 |
| 7 | 9.5364737 | 9.5638107 |
| 8 | 9.5368184 | 9.5642018 |
| 9 | 9.5371628 | 9.5645925 |
| 10 | 9.5375070 | 9.5649831 |
| 11 | 9.5378508 | 9.5653733 |
| 12 | 9.5381943 | 9.5657633 |
| 13 | 9.5385375 | 9.5661530 |
| 14 | 9.5388804 | 9.5665424 |
| 15 | 9.5392230 | 9.5669316 |
| 16 | 9.5395653 | 9.5673205 |
| 17 | 9.5399073 | 9.5677091 |
| 18 | 9.5402489 | 9.5680975 |
| 19 | 9.5405903 | 9.5684856 |
| 20 | 9.5409314 | 9.5688735 |
| 21 | 9.5412721 | 9.5692611 |
| 22 | 9.5416126 | 9.5696484 |
| 23 | 9.5419527 | 9.5700355 |
| 24 | 9.5422926 | 9.5704223 |
| 25 | 9.5426321 | 9.5708088 |
| 26 | 9.5429713 | 9.5711951 |
| 27 | 9.5433103 | 9.5715811 |
| 28 | 9.5436489 | 9.5719669 |
| 29 | 9.5439873 | 9.5723524 |
| 30 | 9.5443253 | 9.5727377 |

| Minut. | 69. Grad. Log. Sin. | Log. Tang |
|---|---|---|
| 60 | 9.9729858 | 10.4389341 |
| 59 | 9.9729398 | 10.4385414 |
| 58 | 9.9728938 | 10.4381488 |
| 57 | 9.9728477 | 10.4377561 |
| 56 | 9.9728016 | 10.4373645 |
| 55 | 9.9727554 | 10.4369728 |
| 54 | 9.9727092 | 10.4365806 |
| 53 | 9.9726629 | 10.4361893 |
| 52 | 9.9726166 | 10.4357982 |
| 51 | 9.9725703 | 10.4354075 |
| 50 | 9.9725239 | 10.4350169 |
| 49 | 9.9724775 | 10.4346267 |
| 48 | 9.9724310 | 10.4342367 |
| 47 | 9.9723845 | 10.4338470 |
| 46 | 9.9723380 | 10.4334576 |
| 45 | 9.9722914 | 10.4330684 |
| 44 | 9.9722448 | 10.4326795 |
| 43 | 9.9721981 | 10.4322909 |
| 42 | 9.9721514 | 10.4319025 |
| 41 | 9.9721047 | 10.4315144 |
| 40 | 9.9720579 | 10.4311265 |
| 39 | 9.9720110 | 10.4307389 |
| 38 | 9.9719642 | 10.4303516 |
| 37 | 9.9719172 | 10.4299647 |
| 36 | 9.9718703 | 10.4295777 |
| 35 | 9.9718233 | 10.4291913 |
| 34 | 9.9717762 | 10.4288049 |
| 33 | 9.9717291 | 10.4284188 |
| 32 | 9.9716820 | 10.4280330 |
| 31 | 9.9716348 | 10.4276474 |
| 30 | 9.9715876 | 10.4272621 |

| Minut. | 20. Grad. | | Minut. | 69. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.5443253 | 9.5727377 | 30 | 9.9715876 | 10.4272623 |
| 31 | 9.5446630 | 9.5731227 | 29 | 9.9715404 | 10.4268773 |
| 32 | 9.5450005 | 9.5735074 | 28 | 9.9714931 | 10.4264926 |
| 33 | 9.5453376 | 9.5738919 | 27 | 9.9714457 | 10.4261081 |
| 34 | 9.5456745 | 9.5742761 | 26 | 9.9713984 | 10.4257239 |
| 35 | 9.5460110 | 9.5746601 | 25 | 9.9713509 | 10.4253399 |
| 36 | 9.5463472 | 9.5750438 | 24 | 9.9713035 | 10.4249562 |
| 37 | 9.5466832 | 9.5754272 | 23 | 9.9712560 | 10.4245728 |
| 38 | 9.5470189 | 9.5758104 | 22 | 9.9712084 | 10.4241896 |
| 39 | 9.5473542 | 9.5761934 | 21 | 9.9711608 | 10.4238066 |
| 40 | 9.5476893 | 9.5765761 | 20 | 9.9711132 | 10.4234239 |
| 41 | 9.5480240 | 9.5769585 | 19 | 9.9710655 | 10.4230415 |
| 42 | 9.5483585 | 9.5773407 | 18 | 9.9710178 | 10.4226593 |
| 43 | 9.5486927 | 9.5777226 | 17 | 9.9709701 | 10.4222774 |
| 44 | 9.5490266 | 9.5781043 | 16 | 9.9709223 | 10.4218957 |
| 45 | 9.5493602 | 9.5784858 | 15 | 9.9708744 | 10.4215242 |
| 46 | 9.5496935 | 9.5788669 | 14 | 9.9708265 | 10.4211331 |
| 47 | 9.5500265 | 9.5792479 | 13 | 9.9707786 | 10.4207521 |
| 48 | 9.5503592 | 9.5796286 | 12 | 9.9707306 | 10.4203714 |
| 49 | 9.5506916 | 9.5800090 | 11 | 9.9706826 | 10.4199910 |
| 50 | 9.5510237 | 9.5803892 | 10 | 9.9706346 | 10.4196108 |
| 51 | 9.5513556 | 9.5807691 | 9 | 9.9705865 | 10.4192309 |
| 52 | 9.5516871 | 9.5811488 | 8 | 9.9705383 | 10.4188512 |
| 53 | 9.5520184 | 9.5815282 | 7 | 9.9704902 | 10.4184718 |
| 54 | 9.5523494 | 9.5819074 | 6 | 9.9704419 | 10.4180926 |
| 55 | 9.5526801 | 9.5822864 | 5 | 9.9703937 | 10.4177136 |
| 56 | 9.5530105 | 9.5826651 | 4 | 9.9703454 | 10.4173349 |
| 57 | 9.5533406 | 9.5830435 | 3 | 9.9702970 | 10.4169565 |
| 58 | 9.5536704 | 9.5834217 | 2 | 9.9702486 | 10.4165783 |
| 59 | 9.5539999 | 9.5837997 | 1 | 9.9702002 | 10.4162003 |
| 60 | 9.5543292 | 9.5841774 | 0 | 9.9701517 | 10.4158226 |

| Minut. | 21. Grad. Log. Sin. | Log. Tang. | Minut. | 68. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.5543292 | 9.5841774 | 60 | 9.9701517 | 10.4158226 |
| 1 | 9.5546581 | 9.5845549 | 59 | 9.9701032 | 10.4154451 |
| 2 | 9.5549868 | 9.5849321 | 58 | 9.9700547 | 10.4150679 |
| 3 | 9.5553152 | 9.5853091 | 57 | 9.9700061 | 10.4146909 |
| 4 | 9.5556433 | 9.5856859 | 56 | 9.9699574 | 10.4143141 |
| 5 | 9.5559711 | 9.5860624 | 55 | 9.9699087 | 10.4139376 |
| 6 | 9.5562987 | 9.5864386 | 54 | 9.9698600 | 10.4135614 |
| 7 | 9.5566259 | 9.5868147 | 53 | 9.9698112 | 10.4131853 |
| 8 | 9.5569529 | 9.5871904 | 52 | 9.9697624 | 10.4128096 |
| 9 | 9.5572796 | 9.5875660 | 51 | 9.9697136 | 10.4124340 |
| 10 | 9.5576060 | 9.5879413 | 50 | 9.9696647 | 10.4120587 |
| 11 | 9.5579321 | 9.5883163 | 49 | 9.9696158 | 10.4116837 |
| 12 | 9.5582579 | 9.5886912 | 48 | 9.9695668 | 10.4113088 |
| 13 | 9.5585835 | 9.5890657 | 47 | 9.9695177 | 10.4109343 |
| 14 | 9.5589088 | 9.5894401 | 46 | 9.9694687 | 10.4105599 |
| 15 | 9.5592338 | 9.5898142 | 45 | 9.9694196 | 10.4101858 |
| 16 | 9.5595585 | 9.5901881 | 44 | 9.9693704 | 10.4098119 |
| 17 | 9.5598829 | 9.5905617 | 43 | 9.9693212 | 10.4094383 |
| 18 | 9.5602071 | 9.5909351 | 42 | 9.9692720 | 10.4090649 |
| 19 | 9.5605310 | 9.5913082 | 41 | 9.9692227 | 10.4086918 |
| 20 | 9.5608546 | 9.5916812 | 40 | 9.9691734 | 10.4083188 |
| 21 | 9.5611779 | 9.5920539 | 39 | 9.9691240 | 10.4079461 |
| 22 | 9.5615010 | 9.5924263 | 38 | 9.9690746 | 10.4075737 |
| 23 | 9.5618237 | 9.5927985 | 37 | 9.9690252 | 10.4072015 |
| 24 | 9.5621462 | 9.5931705 | 36 | 9.9689757 | 10.4068295 |
| 25 | 9.5624685 | 9.5935422 | 35 | 9.9689262 | 10.4064577 |
| 26 | 9.5627904 | 9.5939138 | 34 | 9.9688766 | 10.4060862 |
| 27 | 9.5631121 | 9.5942851 | 33 | 9.9688270 | 10.4057149 |
| 28 | 9.5634335 | 9.5946561 | 32 | 9.9687773 | 10.4053439 |
| 29 | 9.5637546 | 9.5950269 | 31 | 9.9687276 | 10.4049731 |
| 30 | 9.5640754 | 9.5953975 | 30 | 9.9686779 | 10.4046025 |

| Minut. | 21. Grad. | | Minut. | 68. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.5640754 | 9.5953975 | 30 | 9.9686779 | 10.4046025 |
| 31 | 9.5643960 | 9.5957679 | 29 | 9.9686281 | 10.4042321 |
| 32 | 9.5647163 | 9.5961380 | 28 | 9.9685783 | 10.4038620 |
| 33 | 9.5650363 | 9.5965079 | 27 | 9.9685284 | 10.4034921 |
| 34 | 9.5653561 | 9.5968776 | 26 | 9.9684785 | 10.4031224 |
| 35 | 9.5656756 | 9.5972470 | 25 | 9.9684286 | 10.4027530 |
| 36 | 9.5659948 | 9.5976162 | 24 | 9.9683786 | 10.4023838 |
| 37 | 9.5663137 | 9.5979852 | 23 | 9.9683285 | 10.4020148 |
| 38 | 9.5666324 | 9.5983540 | 22 | 9.9682784 | 10.4016460 |
| 39 | 9.5669508 | 9.5987225 | 21 | 9.9682283 | 10.4012775 |
| 40 | 9.5672689 | 9.5990908 | 20 | 9.9681781 | 10.4009092 |
| 41 | 9.5675868 | 9.5994588 | 19 | 9.9681279 | 10.4005412 |
| 42 | 9.5679044 | 9.5998267 | 18 | 9.9680777 | 10.4001733 |
| 43 | 9.5682217 | 9.6001943 | 17 | 9.9680274 | 10.3998057 |
| 44 | 9.5685387 | 9.6005617 | 16 | 9.9679771 | 10.3994383 |
| 45 | 9.5688555 | 9.6009289 | 15 | 9.9679267 | 10.3990711 |
| 46 | 9.5691721 | 9.6012958 | 14 | 9.9678763 | 10.3987042 |
| 47 | 9.5694883 | 9.6016625 | 13 | 9.9678258 | 10.3983375 |
| 48 | 9.5698043 | 9.6020290 | 12 | 9.9677753 | 10.3979710 |
| 49 | 9.5701200 | 9.6023953 | 11 | 9.9677247 | 10.3976047 |
| 50 | 9.5704355 | 9.6027613 | 10 | 9.9676741 | 10.3972387 |
| 51 | 9.5707506 | 9.6031271 | 9 | 9.9676235 | 10.3968729 |
| 52 | 9.5710656 | 9.6034927 | 8 | 9.9675728 | 10.3965073 |
| 53 | 9.5713802 | 9.6038581 | 7 | 9.9675221 | 10.3961419 |
| 54 | 9.5716946 | 9.6042233 | 6 | 9.9674713 | 10.3957767 |
| 55 | 9.5720087 | 9.6045882 | 5 | 9.9674205 | 10.3954118 |
| 56 | 9.5723226 | 9.6049529 | 4 | 9.9673697 | 10.3950471 |
| 57 | 9.5726362 | 9.6053174 | 3 | 9.9673188 | 10.3946826 |
| 58 | 9.5729495 | 9.6056817 | 2 | 9.9672679 | 10.3943183 |
| 59 | 9.5732626 | 9.6060457 | 1 | 9.9672169 | 10.3939543 |
| 60 | 9.5735754 | 9.6064096 | 0 | 9.9671659 | 10.3935904 |

| Minut. | 22. Grad. Log. Sin. | Log. Tang. | Minut. | 67. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.5735754 | 9.6064096 | 60 | 9.9671659 | 10.3935904 |
| 1 | 9.5738880 | 9.6067732 | 59 | 9.9671148 | 10.3932268 |
| 2 | 9.5742003 | 9.6071366 | 58 | 9.9670637 | 10.3928634 |
| 3 | 9.5745123 | 9.6074997 | 57 | 9.9670125 | 10.3925003 |
| 4 | 9.5748240 | 9.6078627 | 56 | 9.9669614 | 10.3921373 |
| 5 | 9.5751356 | 9.6082254 | 55 | 9.9669101 | 10.3917746 |
| 6 | 9.5754468 | 9.6085880 | 54 | 9.9668588 | 10.3914120 |
| 7 | 9.5757578 | 9.6089503 | 53 | 9.9668075 | 10.3910497 |
| 8 | 9.5760685 | 9.6093124 | 52 | 9.9667562 | 10.3906876 |
| 9 | 9.5763790 | 9.6096742 | 51 | 9.9667048 | 10.3903258 |
| 10 | 9.5766892 | 9.6100359 | 50 | 9.9666533 | 10.3899641 |
| 11 | 9.5769991 | 9.6103973 | 49 | 9.9666018 | 10.3896027 |
| 12 | 9.5773088 | 9.6107586 | 48 | 9.9665503 | 10.3892414 |
| 13 | 9.5776183 | 9.6111196 | 47 | 9.9664987 | 10.3888804 |
| 14 | 9.5779275 | 9.6114804 | 46 | 9.9664471 | 10.3885196 |
| 15 | 9.5782364 | 9.6118409 | 45 | 9.9663954 | 10.3881591 |
| 16 | 9.5785450 | 9.6122013 | 44 | 9.9663437 | 10.3877987 |
| 17 | 9.5788535 | 9.6125615 | 43 | 9.9662920 | 10.3874385 |
| 18 | 9.5791616 | 9.6129214 | 42 | 9.9662402 | 10.3870786 |
| 19 | 9.5794695 | 9.6132812 | 41 | 9.9661884 | 10.3867188 |
| 20 | 9.5797772 | 9.6136407 | 40 | 9.9661365 | 10.3863593 |
| 21 | 9.5800845 | 9.6140000 | 39 | 9.9660846 | 10.3860000 |
| 22 | 9.5803917 | 9.6143591 | 38 | 9.9660326 | 10.3856409 |
| 23 | 9.5806986 | 9.6147180 | 37 | 9.9659806 | 10.3852820 |
| 24 | 9.5810052 | 9.6150766 | 36 | 9.9659285 | 10.3849234 |
| 25 | 9.5813116 | 9.6154351 | 35 | 9.9658764 | 10.3845649 |
| 26 | 9.5816177 | 9.6157934 | 34 | 9.9658243 | 10.3842066 |
| 27 | 9.5819236 | 9.6161514 | 33 | 9.9657721 | 10.3838486 |
| 28 | 9.5822292 | 9.6165093 | 32 | 9.9657199 | 10.3834907 |
| 29 | 9.5825345 | 9.6168669 | 31 | 9.9656677 | 10.3831331 |
| 30 | 9.5828397 | 9.6172243 | 30 | 9.9656153 | 10.3827757 |

| Minut. | 22. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.5828397 | 9.6172243 |
| 31 | 9.5831445 | 9.6175815 |
| 32 | 9.5834491 | 9.6179385 |
| 33 | 9.5837535 | 9.6182953 |
| 34 | 9.5840576 | 9.6186519 |
| 35 | 9.5843615 | 9.6190083 |
| 36 | 9.5846651 | 9.6193645 |
| 37 | 9.5849685 | 9.6197205 |
| 38 | 9.5852716 | 9.6200762 |
| 39 | 9.5855745 | 9.6204318 |
| 40 | 9.5858771 | 9.6207872 |
| 41 | 9.5861795 | 9.6211423 |
| 42 | 9.5864816 | 9.6214973 |
| 43 | 9.5867835 | 9.6218520 |
| 44 | 9.5870851 | 9.6222066 |
| 45 | 9.5873865 | 9.6225609 |
| 46 | 9.5876876 | 9.6229150 |
| 47 | 9.5879885 | 9.6232690 |
| 48 | 9.5882892 | 9.6236227 |
| 49 | 9.5885896 | 9.6239763 |
| 50 | 9.5888897 | 9.6243296 |
| 51 | 9.5891897 | 9.6246827 |
| 52 | 9.5894893 | 9.6250356 |
| 53 | 9.5897888 | 9.6253884 |
| 54 | 9.5900880 | 9.6257409 |
| 55 | 9.5903869 | 9.6260932 |
| 56 | 9.5906856 | 9.6264454 |
| 57 | 9.5909841 | 9.6267973 |
| 58 | 9.5912823 | 9.6271491 |
| 59 | 9.5915803 | 9.6275006 |
| 60 | 9.5918780 | 9.6278519 |

| Minut. | 67. Grad. Log.Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9656153 | 10.3827757 |
| 29 | 9.9655630 | 10.3824185 |
| 28 | 9.9655106 | 10.3820615 |
| 27 | 9.9654582 | 10.3817047 |
| 26 | 9.9654057 | 10.3813481 |
| 25 | 9.9653532 | 10.3809917 |
| 24 | 9.9653006 | 10.3806355 |
| 23 | 9.9652480 | 10.3802795 |
| 22 | 9.9651953 | 10.3799238 |
| 21 | 9.9651426 | 10.3795682 |
| 20 | 9.9650899 | 10.3792128 |
| 19 | 9.9650371 | 10.3788577 |
| 18 | 9.9649843 | 10.3785027 |
| 17 | 9.9649314 | 10.3781480 |
| 16 | 9.9648785 | 10.3777934 |
| 15 | 9.9648256 | 10.3774391 |
| 14 | 9.9647726 | 10.3770850 |
| 13 | 9.9647195 | 10.3767310 |
| 12 | 9.9646665 | 10.3763773 |
| 11 | 9.9646133 | 10.3760237 |
| 10 | 9.9645602 | 10.3756704 |
| 9 | 9.9645069 | 10.3753173 |
| 8 | 9.9644537 | 10.3749644 |
| 7 | 9.9644004 | 10.3746116 |
| 6 | 9.9643470 | 10.3742591 |
| 5 | 9.9642937 | 10.3739068 |
| 4 | 9.9642402 | 10.3735546 |
| 3 | 9.9641868 | 10.3732027 |
| 2 | 9.9641332 | 10.3728509 |
| 1 | 9.9640797 | 10.3724994 |
| 0 | 9.9640261 | 10.3721481 |

| Minut. | 23. Grad. | | 66. Grad. | | Minut. |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | Log. Sin. | Log. Tang | |
| 0 | 9.5918780 | 9.6278519 | 9.9640261 | 10.372148 | 60 |
| 1 | 9.5921755 | 9.6282031 | 9.9639724 | 10.3717961 | 59 |
| 2 | 9.5924728 | 9.6285540 | 9.9639187 | 10.3714461 | 58 |
| 3 | 9.5927698 | 9.6289048 | 9.9638650 | 10.3710952 | 57 |
| 4 | 9.5930666 | 9.6292553 | 9.9638112 | 10.3707447 | 56 |
| 5 | 9.5933631 | 9.6296057 | 9.9637574 | 10.3703943 | 55 |
| 6 | 2.5936594 | 9.6299558 | 9.9637036 | 10.3700442 | 54 |
| 7 | 2.5939555 | 9.6303058 | 9.9636496 | 10.3696941 | 53 |
| 8 | 9.5942513 | 9.6306556 | 9.9635957 | 10.3693444 | 52 |
| 9 | 9.5945469 | 9.6310052 | 9.9635417 | 10.3689948 | 51 |
| 10 | 9.5948422 | 9.6313545 | 9.9634877 | 10.3686455 | 50 |
| 11 | 9.5951373 | 9.6317037 | 9.9634336 | 10.3682963 | 49 |
| 12 | 9.5954322 | 9.6320527 | 9.9633795 | 10.3679473 | 48 |
| 13 | 9.5957268 | 9.6324015 | 9.9633253 | 10.3675985 | 47 |
| 14 | 9.5960212 | 9.6327501 | 9.9632711 | 10.3672499 | 46 |
| 15 | 9.5963154 | 9.6330985 | 9.9632168 | 10.3669015 | 45 |
| 16 | 9.5966093 | 9.6334468 | 9.9631625 | 10.3665532 | 44 |
| 17 | 9.5969030 | 9.6337948 | 9.9631082 | 10.3662052 | 43 |
| 18 | 9.5971965 | 9.6341426 | 9.9630538 | 10.3658574 | 42 |
| 19 | 9.5974897 | 9.6344903 | 9.9629994 | 10.3655097 | 41 |
| 20 | 9.5977827 | 9.6348378 | 9.9629449 | 10.3651622 | 40 |
| 21 | 9.5980754 | 9.6351850 | 9.9628904 | 10.3648150 | 39 |
| 22 | 9.5983679 | 9.6355321 | 9.9628358 | 10.3644679 | 38 |
| 23 | 9.5986602 | 9.6358790 | 9.9627812 | 10.3641210 | 37 |
| 24 | 9.5989523 | 9.6362257 | 9.9627266 | 10.3637743 | 36 |
| 25 | 9.5992441 | 9.6365722 | 9.9626719 | 10.3634278 | 35 |
| 26 | 9.5995357 | 9.6369185 | 9.9626172 | 10.3630815 | 34 |
| 27 | 9.5998271 | 9.6372646 | 9.9625624 | 10.3627354 | 33 |
| 28 | 9.6001181 | 9.6376106 | 9.9625076 | 10.3623894 | 32 |
| 29 | 9.6004090 | 9.6379563 | 9.9624527 | 10.3620437 | 31 |
| 30 | 9.6006997 | 9.6383019 | 9.9623978 | 10.3616981 | 30 |

| Minut. | 23. Grad. | | Minut. | 66. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.6006997 | 9.6383019 | 30 | 9.9623978 | 10.3616981 |
| 31 | 9.6009901 | 9.6386473 | 29 | 9.9623428 | 10.3613527 |
| 32 | 9.6012803 | 9.6389925 | 28 | 9.9622878 | 10.3610075 |
| 33 | 9.6015703 | 9.6393375 | 27 | 9.9622328 | 10.3606625 |
| 34 | 9.6018600 | 9.6396823 | 26 | 9.9621777 | 10.3603177 |
| 35 | 9.6021495 | 9.6400269 | 25 | 9.9621226 | 10.3599731 |
| 36 | 9.6024388 | 9.6403714 | 24 | 9.9620674 | 10.3596286 |
| 37 | 9.6027278 | 9.6407156 | 23 | 9.9620122 | 10.3592844 |
| 38 | 9.6030166 | 9.6410597 | 22 | 9.9619569 | 10.3589403 |
| 39 | 9.6033052 | 9.6414036 | 21 | 9.9619016 | 10.3585964 |
| 40 | 9.6035936 | 9.6417473 | 20 | 9.9618463 | 10.3582527 |
| 41 | 9.6038817 | 9.6420908 | 19 | 9.9617909 | 10.3579092 |
| 42 | 9.6041696 | 9.6424342 | 18 | 9.9617355 | 10.3575658 |
| 43 | 9.6044573 | 9.6427773 | 17 | 9.9616800 | 10.3572227 |
| 44 | 9.6047448 | 9.6431203 | 16 | 9.9616245 | 10.3568797 |
| 45 | 9.6050320 | 9.6434631 | 15 | 9.9615689 | 10.3565369 |
| 46 | 9.6053190 | 9.6438057 | 14 | 9.9615133 | 10.3561943 |
| 47 | 9.6056057 | 9.6441481 | 13 | 9.9614576 | 10.3558519 |
| 48 | 9.6058923 | 9.6444903 | 12 | 9.9614020 | 10.3555097 |
| 49 | 9.6061786 | 9.6448324 | 11 | 9.9613463 | 10.3551676 |
| 50 | 9.6064647 | 9.6451743 | 10 | 9.9612904 | 10.3548257 |
| 51 | 9.6067506 | 9.6455160 | 9 | 9.9612346 | 10.3544840 |
| 52 | 9.6070362 | 9.6458575 | 8 | 9.9611787 | 10.3541425 |
| 53 | 9.6073216 | 9.6461988 | 7 | 9.9611228 | 10.3538012 |
| 54 | 9.6076068 | 9.6465400 | 6 | 9.9610668 | 10.3534600 |
| 55 | 9.6078918 | 9.6468810 | 5 | 9.9610108 | 10.3531190 |
| 56 | 9.6081765 | 9.6472217 | 4 | 9.9609548 | 10.3527783 |
| 57 | 9.6084611 | 9.6475624 | 3 | 9.9608987 | 10.3524376 |
| 58 | 9.6087454 | 9.6479028 | 2 | 9.9608426 | 10.3520972 |
| 59 | 9.6090294 | 9.6482431 | 1 | 9.9607864 | 10.3517569 |
| 60 | 9.6093133 | 9.6485831 | 0 | 9.9607302 | 10.3514169 |

| Minut. | 24. Grad. Log. Sin. | Log. Tang. | Minut. | 65. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.6093133 | 9.6485831 | 60 | 9.9607302 | 10.3514169 |
| 1 | 9.6095969 | 9.6489230 | 59 | 9.9606739 | 10.3510770 |
| 2 | 9.6098803 | 9.6492628 | 58 | 9.9606176 | 10.3507372 |
| 3 | 9.6101635 | 9.6496023 | 57 | 9.9605612 | 10.3503977 |
| 4 | 9.6104465 | 9.6499417 | 56 | 9.9605048 | 10.3500583 |
| 5 | 9.6107293 | 9.6502809 | 55 | 9.9604484 | 10.3497191 |
| 6 | 9.6110118 | 9.6506199 | 54 | 9.9603919 | 10.3493801 |
| 7 | 9.6112941 | 9.6509587 | 53 | 9.9603354 | 10.3490413 |
| 8 | 9.6115762 | 9.6512974 | 52 | 9.9602788 | 10.3487026 |
| 9 | 9.6118580 | 9.6516359 | 51 | 9.9602222 | 10.3483641 |
| 10 | 9.6121397 | 9.6519742 | 50 | 9.9601655 | 10.3480258 |
| 11 | 9.6124211 | 9.6523123 | 49 | 9.9601088 | 10.3476877 |
| 12 | 9.6127023 | 9.6526503 | 48 | 9.9600520 | 10.3473497 |
| 13 | 9.6129833 | 9.6529881 | 47 | 9.9599952 | 10.3470119 |
| 14 | 9.6132641 | 9.6533257 | 46 | 9.9599384 | 10.3466743 |
| 15 | 9.6135446 | 9.6536631 | 45 | 9.9598815 | 10.3463369 |
| 16 | 9.6138250 | 9.6540004 | 44 | 9.9598246 | 10.3459996 |
| 17 | 9.6141051 | 9.6543375 | 43 | 9.9597676 | 10.3456625 |
| 18 | 9.6143850 | 9.6546744 | 42 | 9.9597106 | 10.3453256 |
| 19 | 9.6146647 | 9.6550112 | 41 | 9.9596535 | 10.3449888 |
| 20 | 9.6149441 | 9.6553477 | 40 | 9.9595964 | 10.3446523 |
| 21 | 9.6152234 | 9.6556841 | 39 | 9.9595393 | 10.3443159 |
| 22 | 9.6155024 | 9.6560204 | 38 | 9.9594821 | 10.3439796 |
| 23 | 9.6157812 | 9.6563564 | 37 | 9.9594248 | 10.3436436 |
| 24 | 9.6160598 | 9.6566923 | 36 | 9.9593675 | 10.3433077 |
| 25 | 9.6163382 | 9.6570280 | 35 | 9.9593102 | 10.3429720 |
| 26 | 9.6166164 | 9.6573636 | 34 | 9.9592528 | 10.3426364 |
| 27 | 9.6168944 | 9.6576989 | 33 | 9.9591954 | 10.3423011 |
| 28 | 9.6171721 | 9.6580341 | 32 | 9.9591380 | 10.3419659 |
| 29 | 9.6174496 | 9.6583692 | 31 | 9.9590805 | 10.3416308 |
| 30 | 9.6177270 | 9.6587041 | 30 | 9.9590229 | 10.3412960 |

| Minut. | 24. Grad. | | Minut. | 65. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.6177270 | 9.6587041 | 30 | 9.9590229 | 10.3412960 |
| 31 | 9.6180041 | 9.6590387 | 29 | 9.9589653 | 10.3409613 |
| 32 | 9.6182809 | 9.6593733 | 28 | 9.9589077 | 10.3406267 |
| 33 | 9.6185576 | 9.6597076 | 27 | 9.9588500 | 10.3402924 |
| 34 | 9.6188341 | 9.6600418 | 26 | 9.9587923 | 10.3399582 |
| 35 | 9.6191103 | 9.6603758 | 25 | 9.9587345 | 10.3396242 |
| 36 | 9.6193864 | 9.6607097 | 24 | 9.9586767 | 10.3392903 |
| 37 | 9.6196622 | 9.6610434 | 23 | 9.9586188 | 10.3389566 |
| 38 | 9.6199378 | 9.6613769 | 22 | 9.9585609 | 10.3386231 |
| 39 | 9.6202132 | 9.6617103 | 21 | 9.9585030 | 10.3382897 |
| 40 | 9.6204884 | 9.6620434 | 20 | 9.9584450 | 10.3379566 |
| 41 | 9.6207634 | 9.6623765 | 19 | 9.9583869 | 10.3376235 |
| 42 | 9.6210382 | 9.6627093 | 18 | 9.9583288 | 10.3372907 |
| 43 | 9.6213127 | 9.6630420 | 17 | 9.9582707 | 10.3369580 |
| 44 | 9.6215871 | 9.6633745 | 16 | 9.9582125 | 10.3366255 |
| 45 | 9.6218612 | 9.6637069 | 15 | 9.9581543 | 10.3362931 |
| 46 | 9.6221351 | 9.6640391 | 14 | 9.9580961 | 10.3359609 |
| 47 | 9.6224088 | 9.6643711 | 13 | 9.9580378 | 10.3356289 |
| 48 | 9.6226824 | 9.6647030 | 12 | 9.9579794 | 10.3352970 |
| 49 | 9.6229557 | 9.6650346 | 11 | 9.9579210 | 10.3349654 |
| 50 | 9.6232287 | 9.6653662 | 10 | 9.9578626 | 10.3346338 |
| 51 | 9.6235016 | 9.6656975 | 9 | 9.9578041 | 10.3343025 |
| 52 | 9.6237743 | 9.6660288 | 8 | 9.9577456 | 10.3339712 |
| 53 | 9.6240467 | 9.6663598 | 7 | 9.9576870 | 10.3336402 |
| 54 | 9.6243190 | 9.6666907 | 6 | 9.9576284 | 10.3333093 |
| 55 | 9.6245911 | 9.6670214 | 5 | 9.9575697 | 10.3329786 |
| 56 | 9.6248629 | 9.6673519 | 4 | 9.9575110 | 10.3326481 |
| 57 | 9.6251346 | 9.6676823 | 3 | 9.9574522 | 10.3323177 |
| 58 | 9.6254060 | 9.6680126 | 2 | 9.9573934 | 10.3319874 |
| 59 | 9.6256772 | 9.6683426 | 1 | 9.9573346 | 10.3316574 |
| 60 | 9.6259483 | 9.6686725 | 0 | 9.9572757 | 10.3313275 |

| Minut. | 25. Grad. Log. Sin. | Log. Tang. | Minut. | 64. Grad. Log. Sin. | Log. Tang |
|---|---|---|---|---|---|
| 0 | 9.6259483 | 9.6686725 | 60 | 9.9572757 | 10.3313275 |
| 1 | 9.6262191 | 9.6690023 | 59 | 9.9572168 | 10.3309977 |
| 2 | 9.6264897 | 9.6693319 | 58 | 9.9571578 | 10.3306681 |
| 3 | 9.6267601 | 9.6696613 | 57 | 9.9570988 | 10.3303387 |
| 4 | 9.6270303 | 9.6699906 | 56 | 9.9570397 | 10.3300094 |
| 5 | 9.6273003 | 9.6703197 | 55 | 9.9569806 | 10.3296803 |
| 6 | 9.6275701 | 9.6706486 | 54 | 9.9569215 | 10.3293514 |
| 7 | 9.6278397 | 9.6709774 | 53 | 9.9568623 | 10.3290226 |
| 8 | 9.6281090 | 9.6713060 | 52 | 9.9568030 | 10.3286940 |
| 9 | 9.6283782 | 9.6716345 | 51 | 9.9567437 | 10.3283655 |
| 10 | 9.6286472 | 9.6719628 | 50 | 9.9566844 | 10.3280372 |
| 11 | 9.6289160 | 9.6722910 | 49 | 9.9566250 | 10.3277090 |
| 12 | 9.6291845 | 9.6726190 | 48 | 9.9565656 | 10.3273810 |
| 13 | 9.6294529 | 9.6729468 | 47 | 9.9565061 | 10.3270532 |
| 14 | 9.6297211 | 9.6732745 | 46 | 9.9564466 | 10.3267255 |
| 15 | 9.6299890 | 9.6736020 | 45 | 9.9563870 | 10.3263980 |
| 16 | 9.6302568 | 9.6739294 | 44 | 9.9563274 | 10.3260706 |
| 17 | 9.6305243 | 9.6742566 | 43 | 9.9562678 | 10.3257434 |
| 18 | 9.6307917 | 9.6745836 | 42 | 9.9562081 | 10.3254164 |
| 19 | 9.6310589 | 9.6749105 | 41 | 9.9561483 | 10.3250895 |
| 20 | 9.6313258 | 9.6752372 | 40 | 9.9560886 | 10.3247628 |
| 21 | 9.6315926 | 9.6755638 | 39 | 9.9560287 | 10.3244362 |
| 22 | 9.6318591 | 9.6758902 | 38 | 9.9559689 | 10.3241097 |
| 23 | 9.6321255 | 9.6762165 | 37 | 9.9559089 | 10.3237835 |
| 24 | 9.6323916 | 9.6765426 | 36 | 9.9558490 | 10.3234574 |
| 25 | 9.6326576 | 9.6768686 | 35 | 9,9557890 | 10.3231314 |
| 26 | 9.6329233 | 9.6771944 | 34 | 9.9557289 | 10.3228056 |
| 27 | 9.6331889 | 9.6775201 | 33 | 9.9556688 | 10.3224799 |
| 28 | 9.6334542 | 9.6778456 | 32 | 9.9556087 | 10.3221544 |
| 29 | 9.6337194 | 9.6781709 | 31 | 9.9555485 | 10.3218291 |
| 30 | 9.6339844 | 9.6784961 | 30 | 9.9554882 | 10.3215039 |

| Minut. | 25. Grad. | | Minut. | 64. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.6339844 | 9.6784961 | 30 | 9.9554882 | 10.3215039 |
| 31 | 9.6342491 | 9.6788211 | 29 | 9.9554280 | 10.3211789 |
| 32 | 9.6345137 | 9.6791460 | 28 | 9.9553676 | 10.3208540 |
| 33 | 9.6347780 | 9.6794708 | 27 | 9.9553073 | 10.3205292 |
| 34 | 9.6350422 | 9.6797953 | 26 | 9.9552469 | 10.3202047 |
| 35 | 9.6353062 | 9.6801198 | 25 | 9.9551864 | 10.3198803 |
| 36 | 9.6355699 | 9.6804440 | 24 | 9.9551259 | 10.3195560 |
| 37 | 9.6358335 | 9.6807682 | 23 | 9.9550653 | 10.3192318 |
| 38 | 9.6360969 | 9.6810921 | 22 | 9.9550047 | 10.3189079 |
| 39 | 9.6363601 | 9.6814160 | 21 | 9.9549441 | 10.3185840 |
| 40 | 9.6366231 | 9.6817396 | 20 | 9.9548834 | 10.3182604 |
| 41 | 9.6368859 | 9.6820632 | 19 | 9.9548227 | 10.3179368 |
| 42 | 9.6371484 | 9.6823865 | 18 | 9.9547619 | 10.3176135 |
| 43 | 9.6374108 | 9.6827098 | 17 | 9.9547011 | 10.3172902 |
| 44 | 9.6376731 | 9.6830328 | 16 | 9.9546402 | 10.3169672 |
| 45 | 9.6379351 | 9.6833557 | 15 | 9.9545793 | 10.3166443 |
| 46 | 9.6381969 | 9.6836785 | 14 | 9.9545184 | 10.3163215 |
| 47 | 9.6384585 | 9.6840011 | 13 | 9.9544574 | 10.3159989 |
| 48 | 9.6387199 | 9.6843236 | 12 | 9.9543963 | 10.3156764 |
| 49 | 9.6389812 | 9.6846459 | 11 | 9.9543352 | 10.3153541 |
| 50 | 9.6392422 | 9.6849681 | 10 | 9.9542741 | 10.3150319 |
| 51 | 9.6395030 | 9.6852901 | 9 | 9.9542129 | 10.3147099 |
| 52 | 9.6397637 | 9.6856120 | 8 | 9.9541517 | 10.3143880 |
| 53 | 9.6400241 | 9.6859338 | 7 | 9.9540904 | 10.3140662 |
| 54 | 9.6402844 | 9.6862553 | 6 | 9.9540291 | 10.3137447 |
| 55 | 9.6405445 | 9.6865768 | 5 | 9.9539677 | 10.3134232 |
| 56 | 9.6408044 | 9.6868981 | 4 | 9.9539063 | 10.3131019 |
| 57 | 9.6410640 | 9.6872192 | 3 | 9.9538448 | 10.3127808 |
| 58 | 9.6413235 | 9.6875402 | 2 | 9.9537833 | 10.3124598 |
| 59 | 9.6415828 | 9.6878611 | 1 | 9.9537218 | 10.3121389 |
| 60 | 9.6418420 | 9.6881818 | 0 | 9.9536602 | 10.3118182 |

| Minut. | 26. Grad. | | Minut. | 63. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.6418420 | 9.6881818 | 60 | 9.9536602 | 10.3118182 |
| 1 | 9.6421009 | 9.6885023 | 59 | 9.9535985 | 10.3114977 |
| 2 | 9.6423596 | 9.6888227 | 58 | 9.9535369 | 10.3111773 |
| 3 | 9.6426182 | 9.6891430 | 57 | 9.9534751 | 10.3108570 |
| 4 | 9.6428765 | 9.6894631 | 56 | 9.9534134 | 10.3105369 |
| 5 | 9.6431347 | 9.6897831 | 55 | 9.9533515 | 10.3102169 |
| 6 | 9.6433926 | 9.6901030 | 54 | 9.9532897 | 10.3098970 |
| 7 | 9.6436504 | 9.6904226 | 53 | 9.9532278 | 10.3095774 |
| 8 | 9.6439080 | 9.6907422 | 52 | 9.9531658 | 10.3092578 |
| 9 | 9.6441654 | 9.6910616 | 51 | 9.9531038 | 10.3089384 |
| 10 | 9.6444226 | 9.6913809 | 50 | 9.9530418 | 10.3086191 |
| 11 | 9.6446796 | 9.6917000 | 49 | 9.9529797 | 10.3083000 |
| 12 | 9.6449365 | 9.6920189 | 48 | 9.9529175 | 10.3079811 |
| 13 | 9.6451931 | 9.6923378 | 47 | 9.9528553 | 10.3076622 |
| 14 | 9.6454496 | 9.6926565 | 46 | 9.9527931 | 10.3073435 |
| 15 | 9.6457058 | 9.6929750 | 45 | 9.9527308 | 10.3070250 |
| 16 | 9.6459619 | 9.6932934 | 44 | 9.9526685 | 10.3067066 |
| 17 | 9.6462178 | 9.6936117 | 43 | 9.9526061 | 10.3063883 |
| 18 | 9.6464735 | 9.6939298 | 42 | 9.9525437 | 10.3060702 |
| 19 | 9.6467290 | 9.6942478 | 41 | 9.9524813 | 10.3057522 |
| 20 | 9.6469844 | 9.6945656 | 40 | 9.9524188 | 10.3054344 |
| 21 | 9.6472395 | 9.6948833 | 39 | 9.9523562 | 10.3051167 |
| 22 | 9.6474945 | 9.6952009 | 38 | 9.9522936 | 10.3047991 |
| 23 | 9.6477492 | 9.6955183 | 37 | 9.9522310 | 10.3044817 |
| 24 | 9.6480038 | 9.6958355 | 36 | 9.9521683 | 10.3041645 |
| 25 | 9.6482582 | 9.6961527 | 35 | 9.9521055 | 10.3038473 |
| 26 | 9.6485124 | 9.6964697 | 34 | 9.9520428 | 10.3035303 |
| 27 | 9.6487665 | 9.6967865 | 33 | 9.9519799 | 10.3032135 |
| 28 | 9.6490203 | 9.6971032 | 32 | 9.9519171 | 10.3028968 |
| 29 | 9.6492740 | 9.6974198 | 31 | 9.9518541 | 10.3025802 |
| 30 | 9.6495274 | 9.6977363 | 30 | 9.9517912 | 10.3022637 |

| Minut. | 26. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.6495274 | 9.6977363 |
| 31 | 9.6497807 | 9.6980526 |
| 32 | 9.6500338 | 9.6983687 |
| 33 | 9.6502868 | 9.6986847 |
| 34 | 9.6505395 | 9.6990006 |
| 35 | 9.6507920 | 9.6993164 |
| 36 | 9.6510444 | 9.6996320 |
| 37 | 9.6512966 | 9.6999474 |
| 38 | 9.6515486 | 9.7002628 |
| 39 | 9.6518004 | 9.7005780 |
| 40 | 9.6520521 | 9.7008930 |
| 41 | 9.6523035 | 9.7012080 |
| 42 | 9.6525548 | 9.7015227 |
| 43 | 9.6528059 | 9.7018374 |
| 44 | 9.6530568 | 9.7021519 |
| 45 | 9.6533075 | 9.7024663 |
| 46 | 9.6535581 | 9.7027805 |
| 47 | 9.6538084 | 9.7030946 |
| 48 | 9.6540586 | 9.7034086 |
| 49 | 9.6543086 | 9.7037225 |
| 50 | 9.6545584 | 9.7040362 |
| 51 | 9.6548081 | 9.7043497 |
| 52 | 9.6550575 | 9.7046632 |
| 53 | 9.6553068 | 9.7049765 |
| 54 | 9.6555559 | 9.7052897 |
| 55 | 9.6558048 | 9.7056027 |
| 56 | 9.6560536 | 9.7059156 |
| 57 | 9.6563021 | 9.7062284 |
| 58 | 9.6565505 | 9.7065410 |
| 59 | 9.6567987 | 9.7068535 |
| 60 | 9.6570468 | 9.7071659 |

| Minut. | 63. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9517912 | 10.3022637 |
| 29 | 9.9517282 | 10.3019474 |
| 28 | 9.9516651 | 10.3016313 |
| 27 | 9.9516020 | 10.3013153 |
| 26 | 9.9515389 | 10.3009994 |
| 25 | 9.9514757 | 10.3006836 |
| 24 | 9.9514124 | 10.3003680 |
| 23 | 9.9513492 | 10.3000526 |
| 22 | 9.9512858 | 10.2997372 |
| 21 | 9.9512224 | 10.2994220 |
| 20 | 9.9511590 | 10.2991070 |
| 19 | 9.9510956 | 10.2987920 |
| 18 | 9.9510320 | 10.2984773 |
| 17 | 9.9509685 | 10.2981626 |
| 16 | 9.9509049 | 10.2978481 |
| 15 | 9.9508412 | 10.2975337 |
| 14 | 9.9507775 | 10.2972195 |
| 13 | 9.9507138 | 10.2969054 |
| 12 | 9.9506500 | 10.2965914 |
| 11 | 9.9505861 | 10.2962775 |
| 10 | 9.9505223 | 10.2959638 |
| 9 | 9.9504583 | 10.2956503 |
| 8 | 9.9503944 | 10.2953368 |
| 7 | 9.9503303 | 10.2950235 |
| 6 | 9.9502663 | 10.2947103 |
| 5 | 9.9502022 | 10.2943973 |
| 4 | 9.9501380 | 10.2940844 |
| 3 | 9.9500738 | 10.2937716 |
| 2 | 9.9500095 | 10.2934590 |
| 1 | 9.9499452 | 10.2931465 |
| 0 | 9.9498809 | 10.2928341 |

| Minut. | 27. Grad. Log. Sin. | Log. Tang. | Minut. | 62. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.6570468 | 9.7071659 | 60 | 9.9498809 | 10.2928341 |
| 1 | 9.6572946 | 9.7074781 | 59 | 9.9498165 | 10.2925219 |
| 2 | 9.6575423 | 9.7077902 | 58 | 9.9497521 | 10.2922098 |
| 3 | 9.6577898 | 9.7081022 | 57 | 9.9496876 | 10.2918978 |
| 4 | 9.6580371 | 9.7084141 | 56 | 9.9496230 | 10.2915859 |
| 5 | 9.6582842 | 9.7087258 | 55 | 9.9495585 | 10.2912742 |
| 6 | 9.6585312 | 9.7090374 | 54 | 9.9494938 | 10.2909626 |
| 7 | 9.6587780 | 9.7093488 | 53 | 9.9494292 | 10.2906512 |
| 8 | 9.6590246 | 9.7096601 | 52 | 9.9493645 | 10.2903399 |
| 9 | 9.6592710 | 9.7099713 | 51 | 9.9492997 | 10.2900287 |
| 10 | 9.6595173 | 9.7102824 | 50 | 9.9492349 | 10.2897176 |
| 11 | 9.6597634 | 9.7105933 | 49 | 9.9491700 | 10.2894067 |
| 12 | 9.6600093 | 9.7109041 | 48 | 9.9491051 | 10.2890959 |
| 13 | 9.6602550 | 9.7112148 | 47 | 9.9490402 | 10.2887852 |
| 14 | 9.6605005 | 9.7115254 | 46 | 9.9489752 | 10.2884746 |
| 15 | 9.6607459 | 9.7118358 | 45 | 9.9489101 | 10.2881642 |
| 16 | 9.6609911 | 9.7121461 | 44 | 9.9488450 | 10.2878539 |
| 17 | 9.6612361 | 9.7124562 | 43 | 9.9487799 | 10.2875438 |
| 18 | 9.6614810 | 9.7127662 | 42 | 9.9487147 | 10.2872338 |
| 19 | 9.6617257 | 9.7130761 | 41 | 9.9486495 | 10.2869239 |
| 20 | 9.6619701 | 9.7133859 | 40 | 9.9485842 | 10.2866141 |
| 21 | 9.6622145 | 9.7136956 | 39 | 9.9485189 | 10.2863044 |
| 22 | 9.6624586 | 9.7140051 | 38 | 9.9484535 | 10.2859949 |
| 23 | 9.6627026 | 9.7143145 | 37 | 9.9483881 | 10.2856855 |
| 24 | 9.6629464 | 9.7146237 | 36 | 9.9483227 | 10.2853763 |
| 25 | 9.6631900 | 9.7149329 | 35 | 9.9482572 | 10.2850671 |
| 26 | 9.6634335 | 9.7152419 | 34 | 9.9481916 | 10.2847581 |
| 27 | 9.6636768 | 9.7155508 | 33 | 9.9481260 | 10.2844492 |
| 28 | 9.6639199 | 9.7158595 | 32 | 9.9480604 | 10.2841405 |
| 29 | 9.6641628 | 9.7161682 | 31 | 9.9479947 | 10.2838318 |
| 30 | 9.6644056 | 9.7164767 | 30 | 9.9479289 | 10.2835233 |

| Minut. | 27. Grad. Log. Sin. | Log. Tang. | Minut. | 62. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.6644056 | 9.7164767 | 30 | 9.9479289 | 10.2835233 |
| 31 | 9.6646482 | 9.7167851 | 29 | 9.9478631 | 10.2832149 |
| 32 | 9.6648906 | 9.7170933 | 28 | 9.9477973 | 10.2829067 |
| 33 | 9.6651329 | 9.7174014 | 27 | 9.9477314 | 10.2825986 |
| 34 | 9.6653749 | 9.7177094 | 26 | 9.9476655 | 10.2822906 |
| 35 | 9.6656168 | 9.7180173 | 25 | 9.9475995 | 10.2819827 |
| 36 | 9.6658586 | 9.7183251 | 24 | 9.9475335 | 10.2816749 |
| 37 | 9.6661001 | 9.7186327 | 23 | 9.9474674 | 10.2813673 |
| 38 | 9.6663415 | 9.7189402 | 22 | 9.9474013 | 10.2810598 |
| 39 | 9.6665828 | 9.7192476 | 21 | 9.9473352 | 10.2807524 |
| 40 | 9.6668238 | 9.7195549 | 20 | 9.9472689 | 10.2804451 |
| 41 | 9.6670647 | 9.7198620 | 19 | 9.9472027 | 10.2801380 |
| 42 | 9.6673054 | 9.7201690 | 18 | 9.9471364 | 10.2798310 |
| 43 | 9.6675459 | 9.7204759 | 17 | 9.9470700 | 10.2795241 |
| 44 | 9.6677863 | 9.7207827 | 16 | 9.9470036 | 10.2792173 |
| 45 | 9.6680265 | 9.7210893 | 15 | 9.9469372 | 10.2789107 |
| 46 | 9.6682665 | 9.7213958 | 14 | 9.9468707 | 10.2786042 |
| 47 | 9.6685064 | 9.7217022 | 13 | 9.9468042 | 10.2782978 |
| 48 | 9.6687461 | 9.7220085 | 12 | 9.9467376 | 10.2779915 |
| 49 | 9.6689856 | 9.7223147 | 11 | 9.9466710 | 10.2776853 |
| 50 | 9.6692250 | 9.7226207 | 10 | 9.9466043 | 10.2773793 |
| 51 | 9.6694642 | 9.7229266 | 9 | 9.9465376 | 10.2770734 |
| 52 | 9.6697032 | 9.7232324 | 8 | 9.9464708 | 10.2767676 |
| 53 | 9.6699420 | 9.7235381 | 7 | 9.9464040 | 10.2764619 |
| 54 | 9.6701807 | 9.7238436 | 6 | 9.9463371 | 10.2761564 |
| 55 | 9.6704192 | 9.7241490 | 5 | 9.9462702 | 10.2758510 |
| 56 | 9.6706576 | 9.7244543 | 4 | 9.9462032 | 10.2755457 |
| 57 | 9.6708958 | 9.7247595 | 3 | 9.9461362 | 10.2752405 |
| 58 | 9.6711338 | 9.7250646 | 2 | 9.9460692 | 10.2749354 |
| 59 | 9.6713716 | 9.7253695 | 1 | 9.9460021 | 10.2746305 |
| 60 | 9.6716093 | 9.7256744 | 0 | 9.9459349 | 10.2743256 |

| Minut. | 28. Grad. | | Minut. | 61. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.6716093 | 9.7256744 | 60 | 9.9459349 | 10.2743256 |
| 1 | 9.6718468 | 9.7259791 | 59 | 9.9458677 | 10.2740209 |
| 2 | 9.6720841 | 9.7262837 | 58 | 9.9458005 | 10.2737163 |
| 3 | 9.6723213 | 9.7265881 | 57 | 9.9457332 | 10.2734119 |
| 4 | 9.6725583 | 9.7268925 | 56 | 9.9456659 | 10.2731075 |
| 5 | 9.6727952 | 9.7271967 | 55 | 9.9455985 | 10.2728033 |
| 6 | 9.6730319 | 9.7275008 | 54 | 9.9455310 | 10.2724992 |
| 7 | 9.6732684 | 9.7278048 | 53 | 9.9454636 | 10.2721952 |
| 8 | 9.6735047 | 9.7281087 | 52 | 9.9453960 | 10.2718913 |
| 9 | 9.6737409 | 9.7284124 | 51 | 9.9453285 | 10.2715876 |
| 10 | 9.6739769 | 9.7287161 | 50 | 9.9452609 | 10.2712839 |
| 11 | 9.6742128 | 9.7290196 | 49 | 9.9451932 | 10.2709804 |
| 12 | 9.6744485 | 9.7293230 | 48 | 9.9451255 | 10.2706770 |
| 13 | 9.6746840 | 9.7296263 | 47 | 9.9450577 | 10.2703737 |
| 14 | 9.6749194 | 9.7299295 | 46 | 9.9449899 | 10.2700705 |
| 15 | 9.6751546 | 9.7302325 | 45 | 9.9449220 | 10.2697675 |
| 16 | 9.6753896 | 9.7305354 | 44 | 9.9448541 | 10.2694646 |
| 17 | 9.6756245 | 9.7308383 | 43 | 9.9447862 | 10.2691617 |
| 18 | 9.6758592 | 9.7311410 | 42 | 9.9447182 | 10.2688590 |
| 19 | 9.6760937 | 9.7314436 | 41 | 9.9446501 | 10.2685564 |
| 20 | 9.6763281 | 9.7317460 | 40 | 9.9445821 | 10.2682540 |
| 21 | 9.6765623 | 9.7320484 | 39 | 9.9445139 | 10.2679516 |
| 22 | 9.6767963 | 9.7323506 | 38 | 9.9444457 | 10.2676494 |
| 23 | 9.6770302 | 9.7326527 | 37 | 9.9443775 | 10.2673473 |
| 24 | 9.6772640 | 9.7329547 | 36 | 9.9443092 | 10.2670453 |
| 25 | 9.6774975 | 9.7332566 | 35 | 9.9442409 | 10.2667434 |
| 26 | 9.6777309 | 9.7335584 | 34 | 9.9441725 | 10.2664416 |
| 27 | 9.6779642 | 9.7338601 | 33 | 9.9441041 | 10.2661399 |
| 28 | 9.6781972 | 9.7341616 | 32 | 9.9440356 | 10.2658384 |
| 29 | 9.6784301 | 9.7344631 | 31 | 9.9439671 | 10.2655369 |
| 30 | 9.6786629 | 9.7347644 | 30 | 9.9438985 | 10.2652356 |

| Minut. | 28. Grad. | | Minut. | 61. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.6786629 | 9.7347644 | 30 | 9.9438985 | 10.2652356 |
| 31 | 9.6788955 | 9.7350656 | 29 | 9.9438299 | 10.2649344 |
| 32 | 9.6791279 | 9.7353667 | 28 | 9.9437612 | 10.2646333 |
| 33 | 9.6793602 | 9.7356677 | 27 | 9.9436925 | 10.2643323 |
| 34 | 9.6795923 | 9.7359685 | 26 | 9.9436238 | 10.2640315 |
| 35 | 9.6798243 | 9.7362693 | 25 | 9.9435549 | 10.2637307 |
| 36 | 9.6800560 | 9.7365699 | 24 | 9.9434861 | 10.2634301 |
| 37 | 9.6802877 | 9.7368705 | 23 | 9.9434172 | 10.2631295 |
| 38 | 9.6805191 | 9.7371709 | 22 | 9.9433482 | 10.2628291 |
| 39 | 9.6807504 | 9.7374712 | 21 | 9.9432792 | 10.2625288 |
| 40 | 9.6809816 | 9.7377714 | 20 | 9.9432102 | 10.2622286 |
| 41 | 9.6812126 | 9.7380715 | 19 | 9.9431411 | 10.2619285 |
| 42 | 9.6814434 | 9.7383714 | 18 | 9.9430720 | 10.2616286 |
| 43 | 9.6816741 | 9.7386713 | 17 | 9.9430028 | 10.2613287 |
| 44 | 9.6819046 | 9.7389710 | 16 | 9.9429335 | 10.2610290 |
| 45 | 9.6821349 | 9.7392707 | 15 | 9.9428643 | 10.2607293 |
| 46 | 9.6823651 | 9.7395702 | 14 | 9.9427949 | 10.2604298 |
| 47 | 9.6825952 | 9.7398696 | 13 | 9.9427255 | 10.2601304 |
| 48 | 9.6828250 | 9.7401689 | 12 | 9.9426561 | 10.2598311 |
| 49 | 9.6830548 | 9.7404681 | 11 | 9.9425866 | 10.2595319 |
| 50 | 9.6832843 | 9.7407672 | 10 | 9.9425171 | 10.2592328 |
| 51 | 9.6835137 | 9.7410662 | 9 | 9.9424476 | 10.2589338 |
| 52 | 9.6837430 | 9.7413650 | 8 | 9.9423779 | 10.2586350 |
| 53 | 9.6839720 | 9.7416638 | 7 | 9.9423083 | 10.2583362 |
| 54 | 9.6842010 | 9.7419624 | 6 | 9.9422386 | 10.2580376 |
| 55 | 9.6844297 | 9.7422609 | 5 | 9.9421688 | 10.2577391 |
| 56 | 9.6846583 | 9.7425594 | 4 | 9.9420990 | 10.2574406 |
| 57 | 9.6848868 | 9.7428577 | 3 | 9.9420291 | 10.2571423 |
| 58 | 9.6851151 | 9.7431559 | 2 | 9.9419592 | 10.2568441 |
| 59 | 9.6853432 | 9.7434540 | 1 | 9.9418893 | 10.2565460 |
| 60 | 9.6855712 | 9.7437520 | 0 | 9.9418193 | 10.2562480 |

| Minut. | 29. Grad. Log. Sin. | Log. Tang. | Minut. | 60. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.6855712 | 9.7437520 | 60 | 9.9418193 | 10.2562480 |
| 1 | 9.6857991 | 9.7440499 | 59 | 9.9417492 | 10.2559501 |
| 2 | 9.6860267 | 9.7443476 | 58 | 9.9416791 | 10.2556524 |
| 3 | 9.6862542 | 9.7446453 | 57 | 9.9416090 | 10.2553547 |
| 4 | 9.6864816 | 9.7449428 | 56 | 9.9415388 | 10.2550572 |
| 5 | 9.6867088 | 9.7452403 | 55 | 9.9414685 | 10.2547597 |
| 6 | 9.6869359 | 9.7455376 | 54 | 9.9413982 | 10.2544624 |
| 7 | 9.6871628 | 9.7458349 | 53 | 9.9413279 | 10.2541651 |
| 8 | 9.6873895 | 9.7461320 | 52 | 9.9412575 | 10.2538680 |
| 9 | 9.6876161 | 9.7464290 | 51 | 9.9411871 | 10.2535710 |
| 10 | 9.6878425 | 9.7467259 | 50 | 9.9411166 | 10.2532741 |
| 11 | 9.6880688 | 9.7470227 | 49 | 9.9410461 | 10.2529773 |
| 12 | 9.6882949 | 9.7473194 | 48 | 9.9409755 | 10.2526806 |
| 13 | 9.6885209 | 9.7476160 | 47 | 9.9409048 | 10.2523840 |
| 14 | 9.6887467 | 9.7479125 | 46 | 9.9408342 | 10.2520875 |
| 15 | 9.6889723 | 9.7482089 | 45 | 9.9407634 | 10.2517911 |
| 16 | 9.6891978 | 9.7485052 | 44 | 9.9406927 | 10.2514948 |
| 17 | 9.6894232 | 9.7488013 | 43 | 9.9406219 | 10.2511987 |
| 18 | 9.6896484 | 9.7490974 | 42 | 9.9405510 | 10.2509026 |
| 19 | 9.6898734 | 9.7493934 | 41 | 9.9404801 | 10.2506066 |
| 20 | 9.6900983 | 9.7496892 | 40 | 9.9404091 | 10.2503108 |
| 21 | 9.6903231 | 9.7499850 | 39 | 9.9403381 | 10.2500150 |
| 22 | 9.6905476 | 9.7502806 | 38 | 9.9402670 | 10.2497194 |
| 23 | 9.6907721 | 9.7505762 | 37 | 9.9401959 | 10.2494238 |
| 24 | 9.6909964 | 9.7508716 | 36 | 9.9401248 | 10.2491284 |
| 25 | 9.6912205 | 9.7511669 | 35 | 9.9400535 | 10.2488331 |
| 26 | 9.6914445 | 9.7514622 | 34 | 9.9399823 | 10.2485378 |
| 27 | 9.6916683 | 9.7517573 | 33 | 9.9399110 | 10.2482427 |
| 28 | 9.6918919 | 9.7520523 | 32 | 9.9398396 | 10.2479477 |
| 29 | 9.6921155 | 9.7523472 | 31 | 9.9397682 | 10.2476528 |
| 30 | 9.6923388 | 9.7526420 | 30 | 9.9396968 | 10.2473580 |

| Minut. | 29. Grad. | | Minut. | 60. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.6923388 | 9.7526420 | 30 | 9.9396968 | 10.2473580 |
| 31 | 9.6925620 | 9.7529368 | 29 | 9.9396253 | 10.2470632 |
| 32 | 9.6927851 | 9.7532314 | 28 | 9.9395537 | 10.2467686 |
| 33 | 9.6930080 | 9.7535259 | 27 | 9.9394821 | 10.2464741 |
| 34 | 9.6932308 | 9.7538203 | 26 | 9.9394105 | 10.2461797 |
| 35 | 9.6934534 | 9.7541146 | 25 | 9.9393388 | 10.2458854 |
| 36 | 9.6936758 | 9.7544088 | 24 | 9.9392671 | 10.2455912 |
| 37 | 9.6938981 | 9.7547029 | 23 | 9.9391953 | 10.2452971 |
| 38 | 9.6941203 | 9.7549969 | 22 | 9.9391234 | 10.2450031 |
| 39 | 9.6943423 | 9.7552908 | 21 | 9.9390515 | 10.2447092 |
| 40 | 9.6945642 | 9.7555846 | 20 | 9.9389796 | 10.2444154 |
| 41 | 9.6947859 | 9.7558783 | 19 | 9.9389076 | 10.2441217 |
| 42 | 9.6950074 | 9.7561718 | 18 | 9.9388356 | 10.2438282 |
| 43 | 9.6952288 | 9.7564653 | 17 | 9.9387635 | 10.2435347 |
| 44 | 9.6954501 | 9.7567587 | 16 | 9.9386914 | 10.2432413 |
| 45 | 9.6956712 | 9.7570520 | 15 | 9.9386192 | 10.2429480 |
| 46 | 9.6958922 | 9.7573452 | 14 | 9.9385470 | 10.2426548 |
| 47 | 9.6961130 | 9.7576383 | 13 | 9.9384747 | 10.2423617 |
| 48 | 9.6963336 | 9.7579313 | 12 | 9.9384024 | 10.2420687 |
| 49 | 9.6965541 | 9.7582242 | 11 | 9.9383300 | 10.2417758 |
| 50 | 9.6967745 | 9.7585170 | 10 | 9.9382576 | 10.2414830 |
| 51 | 9.6969947 | 9.7588096 | 9 | 9.9381851 | 10.2411904 |
| 52 | 9.6972148 | 9.7591022 | 8 | 9.9381126 | 10.2408978 |
| 53 | 9.6974347 | 9.7593947 | 7 | 9.9380400 | 10.2406053 |
| 54 | 9.6976545 | 9.7596871 | 6 | 9.9379674 | 10.2403129 |
| 55 | 9.6978741 | 9.7599794 | 5 | 9.9378947 | 10.2400206 |
| 56 | 9.6980936 | 9.7602716 | 4 | 9.9378220 | 10.2397284 |
| 57 | 9.6983129 | 9.7605637 | 3 | 9.9377492 | 10.2394363 |
| 58 | 9.6985321 | 9.7608557 | 2 | 9.9376764 | 10.2391443 |
| 59 | 9.6987511 | 9.7611476 | 1 | 9.9376035 | 10.2388524 |
| 60 | 9.6989700 | 9.7614394 | 0 | 9.9375306 | 10.2385606 |

| Minut. | 30. Grad. | | Minut. | 59. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.6989700 | 9.7614394 | 60 | 9.9375306 | 10.2385606 |
| 1 | 9.6991887 | 9.7617311 | 59 | 9.9374577 | 10.2382689 |
| 2 | 9.6994073 | 9.7620227 | 58 | 9.9373847 | 10.2379773 |
| 3 | 9.6996258 | 9.7623142 | 57 | 9.9373116 | 10.2376858 |
| 4 | 9.6998441 | 9.7626056 | 56 | 9.9372385 | 10.2373944 |
| 5 | 9.7000622 | 9.7628969 | 55 | 9.9371653 | 10.2371031 |
| 6 | 9.7002802 | 9.7631881 | 54 | 9.9370921 | 10.2368119 |
| 7 | 9.7004981 | 9.7634792 | 53 | 9.9370189 | 10.2365208 |
| 8 | 9.7007158 | 9.7637702 | 52 | 9.9369456 | 10.2362298 |
| 9 | 9.7009334 | 9.7640612 | 51 | 9.9368722 | 10.2359388 |
| 10 | 9.7011508 | 9.7643520 | 50 | 9.9367988 | 10.2356480 |
| 11 | 9.7013681 | 9.7646427 | 49 | 9.9367254 | 10.2353573 |
| 12 | 9.7015852 | 9.7649334 | 48 | 9.9366519 | 10.2350666 |
| 13 | 9.7018022 | 9.7652239 | 47 | 9.9365783 | 10.2347761 |
| 14 | 9.7020190 | 9.7655143 | 46 | 9.9365047 | 10.2344857 |
| 15 | 9.7022357 | 9.7658047 | 45 | 9.9364311 | 10.2341953 |
| 16 | 9.7024523 | 9.7660949 | 44 | 9.9363574 | 10.2339051 |
| 17 | 9.7026687 | 9.7663851 | 43 | 9.9362836 | 10.2336149 |
| 18 | 9.7028849 | 9.7666751 | 42 | 9.9362098 | 10.2333249 |
| 19 | 9.7031011 | 9.7669651 | 41 | 9.9361360 | 10.2330349 |
| 20 | 9.7033170 | 9.7672550 | 40 | 9.9360621 | 10.2327450 |
| 21 | 9.7035329 | 9.7675448 | 39 | 9.9359881 | 10.2324552 |
| 22 | 9.7037486 | 9.7678344 | 38 | 9.9359141 | 10.2321656 |
| 23 | 9.7039641 | 9.7681240 | 37 | 9.9358401 | 10.2318760 |
| 24 | 9.7041795 | 9.7684135 | 36 | 9.9357660 | 10.2315865 |
| 25 | 9.7043947 | 9.7687029 | 35 | 9.9356918 | 10.2312971 |
| 26 | 9.7046099 | 9.7689922 | 34 | 9.9356177 | 10.2310078 |
| 27 | 9.7048248 | 9.7692814 | 33 | 9.9355434 | 10.2307186 |
| 28 | 9.7050397 | 9.7695705 | 32 | 9.9354691 | 10.2304295 |
| 29 | 9.7052543 | 9.7698596 | 31 | 9.9353948 | 10.2301404 |
| 30 | 9.7054689 | 9.7701485 | 30 | 9.9353204 | 10.2298515 |

| Minut. | 30. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.7054689 | 9.7701485 |
| 31 | 9.7056833 | 9.7704373 |
| 32 | 9.7058975 | 9.7707261 |
| 33 | 9.7061116 | 9.7710147 |
| 34 | 9.7063256 | 9.7713033 |
| 35 | 9.7065394 | 9.7715917 |
| 36 | 9.7067531 | 9.7718801 |
| 37 | 9.7069667 | 9.7721684 |
| 38 | 9.7071801 | 9.7724566 |
| 39 | 9.7073933 | 9.7727447 |
| 40 | 9.7076064 | 9.7730327 |
| 41 | 9.7078194 | 9.7733206 |
| 42 | 9.7080323 | 9.7736084 |
| 43 | 9.7082450 | 9.7738961 |
| 44 | 9.7084575 | 9.7741838 |
| 45 | 9.7086699 | 9.7744713 |
| 46 | 9.7088822 | 9.7747588 |
| 47 | 9.7090943 | 9.7750462 |
| 48 | 9.7093063 | 9.7753334 |
| 49 | 9.7095182 | 9.7756206 |
| 50 | 9.7097299 | 9.7759077 |
| 51 | 9.7099415 | 9.7761947 |
| 52 | 9.7101529 | 9.7764816 |
| 53 | 9.7103642 | 9.7767685 |
| 54 | 9.7105753 | 9.7770552 |
| 55 | 9.7107863 | 9.7773418 |
| 56 | 9.7109972 | 9.7776284 |
| 57 | 9.7112080 | 9.7779149 |
| 58 | 9.7114186 | 9.7782012 |
| 59 | 9.7116290 | 9.7784875 |
| 60 | 9.7118393 | 9.7787737 |

| Minut. | 59. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9353204 | 10.2298515 |
| 29 | 9.9352459 | 10.2295627 |
| 28 | 9.9351715 | 10.2292739 |
| 27 | 9.9350969 | 10.2289853 |
| 26 | 9.9350223 | 10.2286967 |
| 25 | 9.9349477 | 10.2284083 |
| 24 | 9.9348730 | 10.2281199 |
| 23 | 9.9347983 | 10.2278316 |
| 22 | 9.9347235 | 10.2275434 |
| 21 | 9.9346486 | 10.2272553 |
| 20 | 9.9345738 | 10.2269673 |
| 19 | 9.9344988 | 10.2266794 |
| 18 | 9.9344238 | 10.2263916 |
| 17 | 9.9343488 | 10.2261039 |
| 16 | 9.9342737 | 10.2258162 |
| 15 | 9.9341986 | 10.2255287 |
| 14 | 9.9341234 | 10.2252412 |
| 13 | 9.9340482 | 10.2249538 |
| 12 | 9.9339729 | 10.2246666 |
| 11 | 9.9338976 | 10.2243794 |
| 10 | 9.9338222 | 10.2240923 |
| 9 | 9.9337467 | 10.2238053 |
| 8 | 9.9336713 | 10.2235184 |
| 7 | 9.9335957 | 10.2232315 |
| 6 | 9.9335201 | 10.2229448 |
| 5 | 9.9334445 | 10.2226582 |
| 4 | 9.9333688 | 10.2223716 |
| 3 | 9.9332931 | 10.2220851 |
| 2 | 9.9332173 | 10.2217988 |
| 1 | 9.9331415 | 10.2215125 |
| 0 | 9.9330656 | 10.2212263 |

| Minut. | 31. Grad. | | | Minut. | 58. Grad. | |
|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. | |
| 0 | 9.7118393 | 9.7787737 | 60 | 9.9330656 | 10.2212263 | |
| 1 | 9.7120495 | 9.7790599 | 59 | 9.9329897 | 10.2209401 | |
| 2 | 9.7122596 | 9.7793459 | 58 | 9.9329137 | 10.2206541 | |
| 3 | 9.7124695 | 9.7796318 | 57 | 9.9328376 | 10.2203682 | |
| 4 | 9.7126792 | 9.7799177 | 56 | 9.9327616 | 10.2200823 | |
| 5 | 9.7128889 | 9.7802034 | 55 | 9.9326854 | 10.2197966 | |
| 6 | 9.7130983 | 9.7804891 | 54 | 9.9326092 | 10.2195109 | |
| 7 | 9.7133077 | 9.7807747 | 53 | 9.9325330 | 10.2192253 | |
| 8 | 9.7135169 | 9.7810602 | 52 | 9.9324567 | 10.2189398 | |
| 9 | 9.7137260 | 9.7813456 | 51 | 9.9323804 | 10.2186544 | |
| 10 | 9.7139349 | 9.7816309 | 50 | 9.9323040 | 10.2183691 | |
| 11 | 9.7141437 | 9.7819162 | 49 | 9.9322276 | 10.2180838 | |
| 12 | 9.7143524 | 9.7822013 | 48 | 9.9321511 | 10.2177987 | |
| 13 | 9.7145609 | 9.7824864 | 47 | 9.9320748 | 10.2175136 | |
| 14 | 9.7147693 | 9.7827713 | 46 | 9.9319980 | 10.2172287 | |
| 15 | 9.7149776 | 9.7830562 | 45 | 9.9319213 | 10.2169438 | |
| 16 | 9.7151857 | 9.7833410 | 44 | 9.9318447 | 10.2166590 | |
| 17 | 9.7153937 | 9.7836258 | 43 | 9.9317679 | 10.2163742 | |
| 18 | 9.7156015 | 9.7839104 | 42 | 9.9316911 | 10.2160896 | |
| 19 | 9.7158092 | 9.7841949 | 41 | 9.9316143 | 10.2158051 | |
| 20 | 9.7160168 | 9.7844794 | 40 | 9.9315374 | 10.2155206 | |
| 21 | 9.7162243 | 9.7847638 | 39 | 9.9314605 | 10.2152362 | |
| 22 | 9.7164316 | 9.7850481 | 38 | 9.9313835 | 10.2149519 | |
| 23 | 9.7166387 | 9.7853323 | 37 | 9.9313065 | 10.2146677 | |
| 24 | 9.7168458 | 9.7856164 | 36 | 9.9312294 | 10.2143836 | |
| 25 | 9.7170526 | 9.7859004 | 35 | 9.9311522 | 10.2140996 | |
| 26 | 9.7172594 | 9.7861844 | 34 | 9.9310750 | 10.2138156 | |
| 27 | 9.7174660 | 9.7864682 | 33 | 9.9309978 | 10.2135318 | |
| 28 | 9.7176725 | 9.7867520 | 32 | 9.9309205 | 10.2132480 | |
| 29 | 9.7178789 | 9.7870357 | 31 | 9.9308432 | 10.2129643 | |
| 30 | 9.7180851 | 9.7873193 | 30 | 9.9307658 | 10.2126807 | |

| Minut. | 31. Grad. | | | Minut. | 158. Grad. | |
|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | | Log. Sin. | Log. Tang. |
| 30 | 9.7180851 | 9.7873193 | | 30 | 9.9307658 | 10.2126807 |
| 31 | 9.7182912 | 9.7876028 | | 29 | 9.9306883 | 10.2123972 |
| 32 | 9.7184971 | 9.7878863 | | 28 | 9.9306109 | 10.2121137 |
| 33 | 9.7187030 | 9.7881696 | | 27 | 9.9305333 | 10.2118304 |
| 34 | 9.7189086 | 9.7884529 | | 26 | 9.9304557 | 10.2115471 |
| 35 | 9.7191142 | 9.7887361 | | 25 | 9.9303781 | 10.2112639 |
| 36 | 9.7193196 | 9.7890192 | | 24 | 9.9303004 | 10.2109808 |
| 37 | 9.7195249 | 9.7893023 | | 23 | 9.9302226 | 10.2106977 |
| 38 | 9.7197300 | 9.7895852 | | 22 | 9.9301448 | 10.2104148 |
| 39 | 9.7199350 | 9.7898681 | | 21 | 9.9300670 | 10.2101319 |
| 40 | 9.7201399 | 9.7901508 | | 20 | 9.9299891 | 10.2098492 |
| 41 | 9.7203447 | 9.7904335 | | 19 | 9.9299112 | 10.2095665 |
| 42 | 9.7205493 | 9.7907161 | | 18 | 9.9298332 | 10.2092839 |
| 43 | 9.7207538 | 9.7909987 | | 17 | 9.9297551 | 10.2090013 |
| 44 | 9.7209581 | 9.7912811 | | 16 | 9.9296770 | 10.2087189 |
| 45 | 9.7211623 | 9.7915635 | | 15 | 9.9295989 | 10.2084365 |
| 46 | 9.7213664 | 9.7918458 | | 14 | 9.9295207 | 10.2081542 |
| 47 | 9.7215704 | 9.7921280 | | 13 | 9.9294424 | 10.2078720 |
| 48 | 9.7217742 | 9.7924101 | | 12 | 9.9293641 | 10.2075899 |
| 49 | 9.7219779 | 9.7926921 | | 11 | 9.9292857 | 10.2073079 |
| 50 | 9.7221814 | 9.7929741 | | 10 | 9.9292073 | 10.2070259 |
| 51 | 9.7223848 | 9.7932560 | | 9 | 9.9291289 | 10.2067440 |
| 52 | 9.7225881 | 9.7935378 | | 8 | 9.9290504 | 10.2064622 |
| 53 | 9.7227913 | 9.7938195 | | 7 | 9.9289718 | 10.2061805 |
| 54 | 9.7229943 | 9.7941011 | | 6 | 9.9288932 | 10.2058989 |
| 55 | 9.7231972 | 9.7943827 | | 5 | 9.9288145 | 10.2056173 |
| 56 | 9.7234000 | 9.7946641 | | 4 | 9.9287358 | 10.2053359 |
| 57 | 9.7236026 | 9.7949455 | | 3 | 9.9286571 | 10.2050545 |
| 58 | 9.7238051 | 9.7952268 | | 2 | 9.9285783 | 10.2047732 |
| 59 | 9.7240075 | 9.7955081 | | 1 | 9.9284994 | 10.2044919 |
| 60 | 9.7242097 | 9.7957892 | | 0 | 9.9284205 | 10.2042108 |

| Minut. | 32. Grad. | | Minut. | 57. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.7242097 | 9.7957892 | 60 | 9.9284205 | 10.2042108 |
| 1 | 9.7244118 | 9.7960703 | 59 | 9.9283415 | 10.2039297 |
| 2 | 9.7246138 | 9.7963513 | 58 | 9.9282625 | 10.2036487 |
| 3 | 9.7248156 | 9.7966322 | 57 | 9.9281834 | 10.2033678 |
| 4 | 9.7250174 | 9.7969130 | 56 | 9.9281043 | 10.2030870 |
| 5 | 9.7252189 | 9.7971938 | 55 | 9.9280251 | 10.2028062 |
| 6 | 9.7254204 | 9.7974745 | 54 | 9.9279459 | 10.2025255 |
| 7 | 9.7256217 | 9.7977551 | 53 | 9.9278666 | 10.2022449 |
| 8 | 9.7258229 | 9.7980356 | 52 | 9.9277873 | 10.2019644 |
| 9 | 9.7260240 | 9.7983160 | 51 | 9.9277079 | 10.2016840 |
| 10 | 9.7262249 | 9.7985964 | 50 | 9.9276285 | 10.2014036 |
| 11 | 9.7264257 | 9.7988767 | 49 | 9.9275490 | 10.2011233 |
| 12 | 9.7266264 | 9.7991569 | 48 | 9.9274695 | 10.2008431 |
| 13 | 9.7268269 | 9.7994370 | 47 | 9.9273899 | 10.2005630 |
| 14 | 9.7270273 | 9.7997170 | 46 | 9.9273103 | 10.2002830 |
| 15 | 9.7272276 | 9.7999970 | 45 | 9.9272306 | 10.2000030 |
| 16 | 9.7274278 | 9.8002769 | 44 | 9.9271509 | 10.1997231 |
| 17 | 9.7276278 | 9.8005567 | 43 | 9.9270711 | 10.1994433 |
| 18 | 9.7278277 | 9.8008365 | 42 | 9.9269913 | 10.1991635 |
| 19 | 9.7280275 | 9.8011161 | 41 | 9.9269114 | 10.1988839 |
| 20 | 9.7282271 | 9.8013957 | 40 | 9.9268314 | 10.1986043 |
| 21 | 9.7284267 | 9.8016752 | 39 | 9.9267514 | 10.1983248 |
| 22 | 9.7286260 | 9.8019546 | 38 | 9.9266714 | 10.1980454 |
| 23 | 9.7288253 | 9.8022340 | 37 | 9.9265913 | 10.1977660 |
| 24 | 9.7290244 | 9.8025133 | 36 | 9.9265112 | 10.1974867 |
| 25 | 9.7292234 | 9.8027925 | 35 | 9.9264310 | 10.1972075 |
| 26 | 9.7294223 | 9.8030716 | 34 | 9.9263507 | 10.1969284 |
| 27 | 9.7296211 | 9.8033506 | 33 | 9.9262704 | 10.1966494 |
| 28 | 9.7298197 | 9.8036296 | 32 | 9.9261901 | 10.1963704 |
| 29 | 9.7300182 | 9.8039085 | 31 | 9.9261096 | 10.1960915 |
| 30 | 9.7302165 | 9.8041873 | 30 | 9.9260292 | 10.1958127 |

| Minut. | 32. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.7302165 | 9.8041873 |
| 31 | 9.7304148 | 9.8044661 |
| 32 | 9.7306129 | 9.8047447 |
| 33 | 9.7308109 | 9.8050233 |
| 34 | 9.7310087 | 9.8053019 |
| 35 | 9.7312064 | 9.8055803 |
| 36 | 9.7314040 | 9.8058587 |
| 37 | 9.7316015 | 9.8061370 |
| 38 | 9.7317989 | 9.8064152 |
| 39 | 9.7319961 | 9.8066933 |
| 40 | 9.7321932 | 9.8069714 |
| 41 | 9.7323902 | 9.8072494 |
| 42 | 9.7325870 | 9.8075273 |
| 43 | 9.7327837 | 9.8078052 |
| 44 | 9.7329803 | 9.8080829 |
| 45 | 9.7331768 | 9.8083606 |
| 46 | 9.7333731 | 9.8086383 |
| 47 | 9.7335693 | 9.8089158 |
| 48 | 9.7337654 | 9.8091933 |
| 49 | 9.7339614 | 9.8094707 |
| 50 | 9.7341572 | 9.8097480 |
| 51 | 9.7343529 | 9.8100253 |
| 52 | 9.7345485 | 9.8103025 |
| 53 | 9.7347440 | 9.8105796 |
| 54 | 9.7349393 | 9.8108566 |
| 55 | 9.7351345 | 9.8111336 |
| 56 | 9.7353296 | 9.8114105 |
| 57 | 9.7355246 | 9.8116873 |
| 58 | 9.7357195 | 9.8119641 |
| 59 | 9.7359142 | 9.8122408 |
| 60 | 9.7361088 | 9.8125174 |

| Minut. | 57. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.9260292 | 10.1958127 |
| 29 | 9.9259487 | 10.1955339 |
| 28 | 9.9258681 | 10.1952553 |
| 27 | 9.9257875 | 10.1949767 |
| 26 | 9.9257069 | 10.1946981 |
| 25 | 9.9256261 | 10.1944197 |
| 24 | 9.9255454 | 10.1941413 |
| 23 | 9.9254646 | 10.1938630 |
| 22 | 9.9253837 | 10.1935848 |
| 21 | 9.9253028 | 10.1933067 |
| 20 | 9.9252218 | 10.1930286 |
| 19 | 9.9251408 | 10.1927506 |
| 18 | 9.9250597 | 10.1924727 |
| 17 | 9.9249786 | 10.1921948 |
| 16 | 9.9248974 | 10.1919171 |
| 15 | 9.9248161 | 10.1916394 |
| 14 | 9.9247349 | 10.1913617 |
| 13 | 9.9246535 | 10.1910842 |
| 12 | 9.9245721 | 10.1908067 |
| 11 | 9.9244907 | 10.1905293 |
| 10 | 9.9244092 | 10.1902520 |
| 9 | 9.9243277 | 10.1899747 |
| 8 | 9.9242461 | 10.1896975 |
| 7 | 9.9241644 | 10.1894204 |
| 6 | 9.9240827 | 10.1891434 |
| 5 | 9.9240010 | 10.1888664 |
| 4 | 9.9239191 | 10.1885895 |
| 3 | 9.9238373 | 10.1883127 |
| 2 | 9.9237554 | 10.1880359 |
| 1 | 9.9236734 | 10.1877592 |
| 0 | 9.9235914 | 10.1874826 |

| Minut. | 33. Grad. Log. Sin. | Log. Tang. | Minut. | 56. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.7361088 | 9.8125174 | 60 | 9.9235914 | 10.1874826 |
| 1 | 9.7363032 | 9.8127939 | 59 | 9.9235093 | 10.1872061 |
| 2 | 9.7364976 | 9.8130704 | 58 | 9.9234272 | 10.1869296 |
| 3 | 9.7366918 | 9.8133468 | 57 | 9.9233450 | 10.1866532 |
| 4 | 9.7368859 | 9.8136231 | 56 | 9.9232628 | 10.1863769 |
| 5 | 9.7370799 | 9.8138993 | 55 | 9.9231805 | 10.1861007 |
| 6 | 9.7372737 | 9.8141755 | 54 | 9.9230982 | 10.1858245 |
| 7 | 9.7374675 | 9.8144516 | 53 | 9.9230158 | 10.1855484 |
| 8 | 9.7376611 | 9.8147277 | 52 | 9.9229334 | 10.1852723 |
| 9 | 9.7378546 | 9.8150036 | 51 | 9.9228509 | 10.1849964 |
| 10 | 9.7380479 | 9.8152795 | 50 | 9.9227684 | 10.1847205 |
| 11 | 9.7382412 | 9.8155554 | 49 | 9.9226858 | 10.1844446 |
| 12 | 9.7384343 | 9.8158311 | 48 | 9.9226032 | 10.1841689 |
| 13 | 9.7386273 | 9.8161068 | 47 | 9.9225205 | 10.1838932 |
| 14 | 9.7388201 | 9.8163824 | 46 | 9.9224377 | 10.1836176 |
| 15 | 9.7390129 | 9.8166580 | 45 | 9.9223549 | 10.1833420 |
| 16 | 9.7392055 | 9.8169335 | 44 | 9.9222721 | 10.1830665 |
| 17 | 9.7393980 | 9.8172089 | 43 | 9.9221891 | 10.1827911 |
| 18 | 9.7395904 | 9.8174842 | 42 | 9.9221062 | 10.1825158 |
| 19 | 9.7397827 | 9.8177595 | 41 | 9.9220232 | 10.1822405 |
| 20 | 9.7399748 | 9.8180347 | 40 | 9.9219401 | 10.1819653 |
| 21 | 9.7401668 | 9.8183098 | 39 | 9.9218570 | 10.1816902 |
| 22 | 9.7403587 | 9.8185849 | 38 | 9.9217738 | 10.1814151 |
| 23 | 9.7405505 | 9.8188599 | 37 | 9.9216906 | 10.1811401 |
| 24 | 9.7407421 | 9.8191348 | 36 | 9.9216073 | 10.1808652 |
| 25 | 9.7409337 | 9.8194096 | 35 | 9.9215240 | 10.1805904 |
| 26 | 9.7411251 | 9.8196844 | 34 | 9.9214406 | 10.1803156 |
| 27 | 9.7413164 | 9.8199592 | 33 | 9.9213572 | 10.1800408 |
| 28 | 9.7415075 | 9.8202338 | 32 | 9.9212737 | 10.1797662 |
| 29 | 9.7416986 | 9.8205084 | 31 | 9.9211902 | 10.1794916 |
| 30 | 9.7418895 | 9.8207829 | 30 | 9.9211066 | 10.1792171 |

| Minut. | 33. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.7418895 | 9.8207829 |
| 31 | 9.7420803 | 9.8210574 |
| 32 | 9.7422710 | 9.8213317 |
| 33 | 9.7424616 | 9.8216060 |
| 34 | 9.7426520 | 9.8218803 |
| 35 | 9.7428423 | 9.8221545 |
| 36 | 9.7430325 | 9.8224286 |
| 37 | 9.7432226 | 9.8227026 |
| 38 | 9.7434126 | 9.8229766 |
| 39 | 9.7436024 | 9.8232505 |
| 40 | 9.7437921 | 9.8235744 |
| 41 | 9.7439817 | 9.8237981 |
| 42 | 9.7441712 | 9.8240719 |
| 43 | 9.7443606 | 9.8243455 |
| 44 | 9.7445498 | 9.8246191 |
| 45 | 9.7447390 | 9.8248926 |
| 46 | 9.7449280 | 9.8251660 |
| 47 | 9.7451169 | 9.8254394 |
| 48 | 9.7453056 | 9.8257127 |
| 49 | 9.7454943 | 9.8259860 |
| 50 | 9.7456828 | 9.8262592 |
| 51 | 9.7458712 | 9.8265323 |
| 52 | 9.7460595 | 9.8268053 |
| 53 | 9.7462477 | 9.8270783 |
| 54 | 9.7464358 | 9.8273513 |
| 55 | 9.7466237 | 9.8276241 |
| 56 | 9.7468115 | 9.8278969 |
| 57 | 9.7469992 | 9.8281696 |
| 58 | 9.7471868 | 9.8284423 |
| 59 | 9.7473743 | 9.8287149 |
| 60 | 9.7475617 | 9.8289874 |

| Minut. | 56. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.9211066 | 10.1792171 |
| 29 | 9.9210229 | 10.1789426 |
| 28 | 9.9209393 | 10.1786683 |
| 27 | 9.9208555 | 10.1783940 |
| 26 | 9.9207717 | 10.1781197 |
| 25 | 9.9206878 | 10.1778455 |
| 24 | 9.9206039 | 10.1775714 |
| 23 | 9.9205200 | 10.1772974 |
| 22 | 9.9204360 | 10.1770234 |
| 21 | 9.9203519 | 10.1767495 |
| 20 | 9.9202678 | 10.1764756 |
| 19 | 9.9201836 | 10.1762019 |
| 18 | 9.9200994 | 10.1759281 |
| 17 | 9.9200151 | 10.1756545 |
| 16 | 9.9199308 | 10.1753809 |
| 15 | 9.9198464 | 10.1751074 |
| 14 | 9.9197619 | 10.1748340 |
| 13 | 9.9196775 | 10.1745606 |
| 12 | 9.9195929 | 10.1742873 |
| 11 | 9.9195083 | 10.1740140 |
| 10 | 9.9194237 | 10.1737408 |
| 9 | 9.9193390 | 10.1734677 |
| 8 | 9.9192542 | 10.1731947 |
| 7 | 9.9191694 | 10.1729217 |
| 6 | 9.9190845 | 10.1726487 |
| 5 | 9.9189996 | 10.1723759 |
| 4 | 9.9189146 | 10.1721031 |
| 3 | 9.9188296 | 10.1718304 |
| 2 | 9.9187445 | 10.1715577 |
| 1 | 9.9186594 | 10.1712851 |
| 0 | 9.9185742 | 10.1710126 |

| Minut. | 34. Grad. Log. Sin. | Log. Tang. | Minut. | 55. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.7475617 | 9.8289874 | 60 | 9.9185742 | 10.1710126 |
| 1 | 9.7477489 | 9.8292599 | 59 | 9.9184890 | 10.1707401 |
| 2 | 9.7479360 | 9.8295323 | 58 | 9.9184037 | 10.1704677 |
| 3 | 9.7481230 | 9.8298047 | 57 | 9.9183183 | 10.1701953 |
| 4 | 9.7483099 | 9.8300769 | 56 | 9.9182329 | 10.1699231 |
| 5 | 9.7484967 | 9.8303492 | 55 | 9.9181475 | 10.1696508 |
| 6 | 9.7486833 | 9.8306213 | 54 | 9.9180620 | 10.1693787 |
| 7 | 9.7488698 | 9.8308934 | 53 | 9.9179764 | 10.1691066 |
| 8 | 9.7490562 | 9.8311654 | 52 | 9.9178908 | 10.1688346 |
| 9 | 9.7492425 | 9.8314374 | 51 | 9.9178051 | 10.1685626 |
| 10 | 9.7494287 | 9.8317093 | 50 | 9.9177194 | 10.1682907 |
| 11 | 9.7496148 | 9.8319811 | 49 | 9.9176336 | 10.1680189 |
| 12 | 9.7498007 | 9.8322529 | 48 | 9.9175478 | 10.1677471 |
| 13 | 9.7499866 | 9.8325246 | 47 | 9.9174619 | 10.1674754 |
| 14 | 9.7501723 | 9.8327963 | 46 | 9.9173760 | 10.1672037 |
| 15 | 9.7503579 | 9.8330679 | 45 | 9.9172900 | 10.1669321 |
| 16 | 9.7505434 | 9.8333394 | 44 | 9.9172040 | 10.1666606 |
| 17 | 9.7507287 | 9.8336109 | 43 | 9.9171179 | 10.1663891 |
| 18 | 9.7509140 | 9.8338823 | 42 | 9.9170317 | 10.1661177 |
| 19 | 9.7510991 | 9.8341536 | 41 | 9.9169455 | 10.1658464 |
| 20 | 9.7512842 | 9.8344249 | 40 | 9.9168593 | 10.1655751 |
| 21 | 9.7514691 | 9.8346961 | 39 | 9.9167730 | 10.1653039 |
| 22 | 9.7516538 | 9.8349673 | 38 | 9.9166866 | 10.1650327 |
| 23 | 9.7518385 | 9.8352384 | 37 | 9.9166002 | 10.1647616 |
| 24 | 9.7520231 | 9.8355094 | 36 | 9.9165137 | 10.1644906 |
| 25 | 9.7522075 | 9.8357804 | 35 | 9.9164272 | 10.1642196 |
| 26 | 9.7523919 | 9.8360513 | 34 | 9.9163406 | 10.1639487 |
| 27 | 9.7525761 | 9.8363221 | 33 | 9.9162539 | 10.1636779 |
| 28 | 9.7527602 | 9.8365929 | 32 | 9.9161673 | 10.1634071 |
| 29 | 9.7529442 | 9.8368636 | 31 | 9.9160805 | 10.1631364 |
| 30 | 9.7531280 | 9.8371343 | 30 | 9.9159937 | 10.1628657 |

| Minut. | 34. Grad. | | | Minut. | 55. Grad. | |
|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | | Log. Sin. | Log. Tang. |
| 30 | 9.7531280 | 9.8371343 | | 30 | 9.9159937 | 10.1628657 |
| 31 | 9.7533118 | 9.8374049 | | 29 | 9.9159069 | 10.1625951 |
| 32 | 9.7534954 | 9.8376755 | | 28 | 9.9158200 | 10.1623245 |
| 33 | 9.7536790 | 9.8379460 | | 27 | 9.9157330 | 10.1620540 |
| 34 | 9.7538624 | 9.8382164 | | 26 | 9.9156460 | 10.1617836 |
| 35 | 9.7540457 | 9.8384867 | | 25 | 9.9155589 | 10.1615133 |
| 36 | 9.7542288 | 9.8387571 | | 24 | 9.9154718 | 10.1612429 |
| 37 | 9.7544119 | 9.8390273 | | 23 | 9.9153846 | 10.1609727 |
| 38 | 9.7545949 | 9.8392975 | | 22 | 9.9152974 | 10.1607025 |
| 39 | 9.7547777 | 9.8395676 | | 21 | 9.9152101 | 10.1604324 |
| 40 | 9.7549604 | 9.8398377 | | 20 | 9.9151228 | 10.1601623 |
| 41 | 9.7551431 | 9.8401077 | | 19 | 9.9150354 | 10.1598923 |
| 42 | 9.7553256 | 9.8403776 | | 18 | 9.9149479 | 10.1596224 |
| 43 | 9.7555080 | 9.8406475 | | 17 | 9.9148604 | 10.1593525 |
| 44 | 9.7556902 | 9.8409174 | | 16 | 9.9147729 | 10.1590826 |
| 45 | 9.7558724 | 9.8411871 | | 15 | 9.9146852 | 10.1588129 |
| 46 | 9.7560544 | 9.8414569 | | 14 | 9.9145976 | 10.1585431 |
| 47 | 9.7562364 | 9.8417265 | | 13 | 9.9145099 | 10.1582735 |
| 48 | 9.7564182 | 9.8419961 | | 12 | 9.9144221 | 10.1580039 |
| 49 | 9.7565999 | 9.8422657 | | 11 | 9.9143342 | 10.1577343 |
| 50 | 9.7567815 | 9.8425351 | | 10 | 9.9142464 | 10.1574649 |
| 51 | 9.7569630 | 9.8428046 | | 9 | 9.9141584 | 10.1571954 |
| 52 | 9.7571444 | 9.8430739 | | 8 | 9.9140704 | 10.1569261 |
| 53 | 9.7573256 | 9.8433432 | | 7 | 9.9139824 | 10.1566568 |
| 54 | 9.7575068 | 9.8436125 | | 6 | 9.9138943 | 10.1563875 |
| 55 | 9.7576878 | 9.8438817 | | 5 | 9.9138061 | 10.1561183 |
| 56 | 9.7578687 | 9.8441508 | | 4 | 9.9137179 | 10.1558492 |
| 57 | 9.7580495 | 9.8444199 | | 3 | 9.9136296 | 10.1555801 |
| 58 | 9.7582302 | 9.8446889 | | 2 | 9.9135413 | 10.1553111 |
| 59 | 9.7584108 | 9.8449579 | | 1 | 9.9134530 | 10.1550421 |
| 60 | 9.7585913 | 9.8452268 | | 0 | 9.9133645 | 10.1547732 |

| Minut. | 35. Grad. | | Minut. | 54. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.7585913 | 9.8452268 | 60 | 9.9133645 | 10.1547732 |
| 1 | 9.7587717 | 9.8454956 | 59 | 9.9132760 | 10.1545044 |
| 2 | 9.7589519 | 9.8457644 | 58 | 9.9131875 | 10.1542356 |
| 3 | 9.7591321 | 9.8460332 | 57 | 9.9130989 | 10.1539668 |
| 4 | 9.7593121 | 9.8463018 | 56 | 9.9130102 | 10.1536982 |
| 5 | 9.7594920 | 9.8465705 | 55 | 9.9129215 | 10.1534295 |
| 6 | 9.7596718 | 9.8468390 | 54 | 9.9128328 | 10.1531610 |
| 7 | 9.7598515 | 9.8471075 | 53 | 9.9127440 | 10.1528925 |
| 8 | 9.7600311 | 9.8473760 | 52 | 9.9126552 | 10.1526240 |
| 9 | 9.7602106 | 9.8476444 | 51 | 9.9125662 | 10.1523556 |
| 10 | 9.7603899 | 9.8479127 | 50 | 9.9124772 | 10.1520873 |
| 11 | 9.7605692 | 9.8481810 | 49 | 9.9123882 | 10.1518190 |
| 12 | 9.7607483 | 9.8484492 | 48 | 9.9122991 | 10.1515508 |
| 13 | 9.7609274 | 9.8487174 | 47 | 9.9122099 | 10.1512826 |
| 14 | 9.7611063 | 8.8489855 | 46 | 9.9121207 | 10.1510145 |
| 15 | 9.7612851 | 9.8492536 | 45 | 9.9120315 | 10.1507464 |
| 16 | 9.7614638 | 9.8495216 | 44 | 9.9119422 | 10.1504784 |
| 17 | 9.7616424 | 9.8497896 | 43 | 9.9118528 | 10.1502104 |
| 18 | 9.7618208 | 9.8500575 | 42 | 9.9117634 | 10.1499425 |
| 19 | 9.7619992 | 9.8503253 | 41 | 9.9116739 | 10.1496747 |
| 20 | 9.7621775 | 9.8505931 | 40 | 9.9115844 | 10.1494069 |
| 21 | 9.7623556 | 9.8508608 | 39 | 9.9114948 | 10.1491392 |
| 22 | 9.7625337 | 9.8511285 | 38 | 9.9114051 | 10.1488715 |
| 23 | 9.7627116 | 9.8513961 | 37 | 9.9113155 | 10.1486039 |
| 24 | 9.7628894 | 9.8516637 | 36 | 9.9112257 | 10.1483363 |
| 25 | 9.7630671 | 9.8519312 | 35 | 9.9111359 | 10.1480688 |
| 26 | 9.7632447 | 9.8521987 | 34 | 9.9110460 | 10.1478013 |
| 27 | 9.7634222 | 9.8524661 | 33 | 9.9109561 | 10.1475339 |
| 28 | 9.7635996 | 9.8527335 | 32 | 9.9108661 | 10.1472665 |
| 29 | 9.7637769 | 9.8530008 | 31 | 9.9107761 | 10.1469992 |
| 30 | 9.7639540 | 9.8532680 | 30 | 9.9106860 | 10.1467320 |

| Minut. | 35. Grad. Log. Sin. | Log. Tang. | Minut. | 54. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.7639540 | 9.8532680 | 30 | 9.9106860 | 10.1467320 |
| 31 | 9.7641311 | 9.8535352 | 29 | 9.9105959 | 10.1464648 |
| 32 | 9.7643080 | 9.8538023 | 28 | 9.9105057 | 10.1461977 |
| 33 | 9.7644849 | 9.8540694 | 27 | 9.9104155 | 10.1459306 |
| 34 | 9.7646616 | 9.8543365 | 26 | 9.9103251 | 10.1456635 |
| 35 | 9.7648382 | 9.8546034 | 25 | 9.9102348 | 10.1453966 |
| 36 | 9.7650147 | 9.8548704 | 24 | 9.9101444 | 10.1451296 |
| 37 | 9.7651911 | 9.8551372 | 23 | 9.9100539 | 10.1448628 |
| 38 | 9.7653674 | 9.8554041 | 22 | 9.9099634 | 10.1445959 |
| 39 | 9.7655436 | 9.8556708 | 21 | 9.9098728 | 10.1443292 |
| 40 | 9.7657197 | 9.8559376 | 20 | 9.9097821 | 10.1440624 |
| 41 | 9.7658957 | 9.8562042 | 19 | 9.9096915 | 10.1437958 |
| 42 | 9.7660715 | 9.8564708 | 18 | 9.9096007 | 10.1435292 |
| 43 | 9.7662473 | 9.8567374 | 17 | 9.9095099 | 10.1432626 |
| 44 | 9.7664229 | 9.8570039 | 16 | 9.9094190 | 10.1429961 |
| 45 | 9.7665985 | 9.8572704 | 15 | 9.9093281 | 10.1427296 |
| 46 | 9.7667739 | 9.8575368 | 14 | 9.9092371 | 10.1424632 |
| 47 | 9.7669492 | 9.8578031 | 13 | 9.9091461 | 10.1421969 |
| 48 | 9.7671244 | 9.8580694 | 12 | 9.9090550 | 10.1419306 |
| 49 | 9.7672996 | 9.8583357 | 11 | 9.9089639 | 10.1416643 |
| 50 | 9.7674746 | 9.8586019 | 10 | 9.9088727 | 10.1413981 |
| 51 | 9.7676494 | 9.8588680 | 9 | 9.9087814 | 10.1411320 |
| 52 | 9.7678242 | 9.8591341 | 8 | 9.9086901 | 10.1408659 |
| 53 | 9.7679989 | 9.8594002 | 7 | 9.9085988 | 10.1405998 |
| 54 | 9.7681735 | 9.8596661 | 6 | 9.9085073 | 10.1403339 |
| 55 | 9.7683480 | 9.8599321 | 5 | 9.9084159 | 10.1400679 |
| 56 | 9.7685223 | 9.8601980 | 4 | 9.9083243 | 10.1398020 |
| 57 | 9.7686966 | 9.8604638 | 3 | 9.9082327 | 10.1395362 |
| 58 | 9.7688707 | 9.8607296 | 2 | 9.9081411 | 10.1392704 |
| 59 | 9.7690448 | 9.8609954 | 1 | 9.9080494 | 10.1390046 |
| 60 | 9.7692187 | 9.8612610 | 0 | 9.9079576 | 10.1387390 |

| Minut. | 36. Grad. Log. Sin. | Log. Tang. | Minut. | 53. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.7692187 | 9.8612610 | 60 | 9.9079576 | 10.1387390 |
| 1 | 9.7693925 | 9.8615267 | 59 | 9.9078658 | 10.1384733 |
| 2 | 9.7695662 | 9.8617923 | 58 | 9.9077740 | 10.1382077 |
| 3 | 9.7697398 | 9.8620578 | 57 | 9.9076820 | 10.1379422 |
| 4 | 9.7699134 | 9.8623233 | 56 | 9.9075901 | 10.1376767 |
| 5 | 9.7700868 | 9.8625887 | 55 | 9.9074980 | 10.1374113 |
| 6 | 9.7702601 | 9.8628541 | 54 | 9.9074059 | 10.1371459 |
| 7 | 9.7704332 | 9.8631195 | 53 | 9.9073138 | 10.1368805 |
| 8 | 9.7706063 | 9.8633848 | 52 | 9.9072216 | 10.1366152 |
| 9 | 9.7707793 | 9.8636500 | 51 | 9.9071293 | 10.1363500 |
| 10 | 9.7709522 | 9.8639152 | 50 | 9.9070370 | 10.1360848 |
| 11 | 9.7711249 | 9.8641803 | 49 | 9.9069446 | 10.1358197 |
| 12 | 9.7712976 | 9.8644454 | 48 | 9.9068522 | 10.1355546 |
| 13 | 9.7714702 | 9.8647105 | 47 | 9.9067597 | 10.1352895 |
| 14 | 9.7716426 | 9.8649755 | 46 | 9.9066671 | 10.1350245 |
| 15 | 9.7718150 | 9.8652404 | 45 | 9.9065745 | 10.1347596 |
| 16 | 9.7719872 | 9.8655053 | 44 | 9.9064819 | 10.1344947 |
| 17 | 9.7721593 | 9.8657702 | 43 | 9.9063892 | 10.1342298 |
| 18 | 9.7723314 | 9.8660350 | 42 | 9.9062964 | 10.1339650 |
| 19 | 9.7725033 | 9.8662997 | 41 | 9.9062036 | 10.1337003 |
| 20 | 9.7726751 | 9.8665644 | 40 | 9.9061107 | 10.1334356 |
| 21 | 9.7728468 | 9.8668291 | 39 | 9.9060177 | 10.1331709 |
| 22 | 9.7730185 | 9.8670937 | 38 | 9.9059247 | 10.1329063 |
| 23 | 9.7731900 | 9.8673583 | 37 | 9.9058317 | 10.1326417 |
| 24 | 9.7733614 | 9.8676228 | 36 | 9.9057386 | 10.1323772 |
| 25 | 9.7735327 | 9.8678873 | 35 | 9.9056454 | 10.1321127 |
| 26 | 9.7737039 | 9.8681517 | 34 | 9.9055522 | 10.1318483 |
| 27 | 9.7738749 | 9.8684160 | 33 | 9.9054589 | 10.1315840 |
| 28 | 9.7740459 | 9.8686804 | 32 | 9.9053656 | 10.1313196 |
| 29 | 9.7742168 | 9.8689446 | 31 | 9.9052722 | 10.1310554 |
| 30 | 9.7743876 | 9.8692089 | 30 | 9.9051787 | 10.1307911 |

| Minut. | 36. Grad. | | Minut. | 53. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.7743876 | 9.8692089 | 30 | 9.9051787 | 10.1307911 |
| 31 | 9.7745583 | 9.8694731 | 29 | 9.9050852 | 10.1305269 |
| 32 | 9.7747288 | 9.8697372 | 28 | 9.9049916 | 10.1302628 |
| 33 | 9.7748993 | 9.8700013 | 27 | 9.9048980 | 10.1299987 |
| 34 | 9.7750697 | 9.8702653 | 26 | 9.9048043 | 10.1297347 |
| 35 | 9.7752399 | 9.8705293 | 25 | 9.9047106 | 10.1294707 |
| 36 | 9.7754101 | 9.8707933 | 24 | 9.9046168 | 10.1292067 |
| 37 | 9.7755801 | 9.8710572 | 23 | 9.9045230 | 10.1289428 |
| 38 | 9.7757501 | 9.8713210 | 22 | 9.9044291 | 10.1286790 |
| 39 | 9.7759199 | 9.8715848 | 21 | 9.9043351 | 10.1284152 |
| 40 | 9.7760897 | 9.8718486 | 20 | 9.9042411 | 10.1281514 |
| 41 | 9.7762593 | 9.8721123 | 19 | 9.9041470 | 10.1278877 |
| 42 | 9.7764289 | 9.8723760 | 18 | 9.9040529 | 10.1276240 |
| 43 | 9.7765983 | 9.8726396 | 17 | 9.9039587 | 10.1273604 |
| 44 | 9.7767676 | 9.8729032 | 16 | 9.9038644 | 10.1270968 |
| 45 | 9.7769369 | 9.8731668 | 15 | 9.9037701 | 10.1268332 |
| 46 | 9.7771060 | 9.8734302 | 14 | 9.9036757 | 10.1265698 |
| 47 | 9.7772750 | 9.8736937 | 13 | 9.9035813 | 10.1263063 |
| 48 | 9.7774439 | 9.8739571 | 12 | 9.9034868 | 10.1260429 |
| 49 | 9.7776128 | 9.8742204 | 11 | 9.9033923 | 10.1257796 |
| 50 | 9.7777815 | 9.8744838 | 10 | 9.9032977 | 10.1255162 |
| 51 | 8.7779501 | 9.8747470 | 9 | 9.9032031 | 10.1252530 |
| 52 | 9.7781186 | 9.8750102 | 8 | 9.9031084 | 10.1249898 |
| 53 | 9.7782870 | 9.8752734 | 7 | 9.9030136 | 10.1247266 |
| 54 | 9.7784553 | 9.8755365 | 6 | 9.9029188 | 10.1244635 |
| 55 | 9.7786235 | 9.8757996 | 5 | 9.9028239 | 10.1242004 |
| 56 | 9.7787916 | 9.8760627 | 4 | 9.9027289 | 10.1239373 |
| 57 | 9.7789596 | 9.8763257 | 3 | 9.9026339 | 10.1236743 |
| 58 | 9.7791275 | 9.8765886 | 2 | 9.9025389 | 10.1234114 |
| 59 | 9.7792953 | 9.8768515 | 1 | 9.9024438 | 10.1231485 |
| 60 | 9.7794630 | 9.8771144 | 0 | 9.9023486 | 10.1228856 |

| Minut. | 57. Grad. | | 51. Grad. | | Minut. |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | Log. Sin. | Log. Tang. | |
| 0 | 9.7794630 | 9.8771144 | 9.9023486 | 10.1228856 | 60 |
| 1 | 9.7796306 | 9.8773772 | 9.9022534 | 10.1226228 | 59 |
| 2 | 9.7797981 | 9.8776400 | 9.9021581 | 10.1223600 | 58 |
| 3 | 9.7799655 | 9.8779027 | 9.9020628 | 10.1220973 | 57 |
| 4 | 9.7801328 | 9.8781654 | 9.9019674 | 10.1218346 | 56 |
| 5 | 9.7803000 | 9.8784281 | 9.9018719 | 10.1215719 | 55 |
| 6 | 9.7804671 | 9.8786907 | 9.9017764 | 10.1213093 | 54 |
| 7 | 9.7806341 | 9.8789533 | 9.9016808 | 10.1210467 | 53 |
| 8 | 9.7808010 | 9.8792158 | 9.9015852 | 10.1207842 | 52 |
| 9 | 9.7809677 | 9.8794782 | 9.9014895 | 10.1205218 | 51 |
| 10 | 9.7811344 | 9.8797407 | 9.9013938 | 10.1202593 | 50 |
| 11 | 9.7813010 | 9.8800031 | 9.9012980 | 10.1199969 | 49 |
| 12 | 9.7814675 | 9.8802654 | 9.9012021 | 10.1197346 | 48 |
| 13 | 9.7816339 | 9.8805277 | 9.9011062 | 10.1194723 | 47 |
| 14 | 9.7818002 | 9.8807990 | 9.9010102 | 10.1192100 | 46 |
| 15 | 9.7819664 | 9.8810522 | 9.9009142 | 10.1189478 | 45 |
| 16 | 9.7821324 | 9.8813144 | 9.9008181 | 10.1186856 | 44 |
| 17 | 9.7822984 | 9.8815765 | 9.9007219 | 10.1184235 | 43 |
| 18 | 9.7824643 | 9.8818386 | 9.9006257 | 10.1181614 | 42 |
| 19 | 9.7826301 | 9.8821007 | 9.9005294 | 10.1178993 | 41 |
| 20 | 9.7827958 | 9.8823627 | 9.9004331 | 10.1176373 | 40 |
| 21 | 9.7829614 | 9.8826246 | 9.9003367 | 10.1173754 | 39 |
| 22 | 9.7831268 | 9.8828866 | 9.9002403 | 10.1171134 | 38 |
| 23 | 9.7832922 | 9.8831484 | 9.9001438 | 10.1168516 | 37 |
| 24 | 9.7834575 | 9.8834103 | 9.9000472 | 10.1165897 | 36 |
| 25 | 9.7836227 | 9.8836721 | 9.8999506 | 10.1163279 | 35 |
| 26 | 9.7837878 | 9.8839338 | 9.8998539 | 10.1160662 | 34 |
| 27 | 9.7839528 | 9.8841956 | 9.8997572 | 10.1158044 | 33 |
| 28 | 9.7841177 | 9.8844572 | 9.8996604 | 10.1155428 | 32 |
| 29 | 9.7842824 | 9.8847189 | 9.8995636 | 10.1152811 | 31 |
| 30 | 9.7844471 | 9.8849805 | 9.8994667 | 10.1150195 | 30 |

| Minut. | 37. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.7844471 | 9.8849805 |
| 31 | 9.7846117 | 9.8852420 |
| 32 | 9.7847762 | 9.8855035 |
| 33 | 9.7849406 | 9.8857650 |
| 34 | 9.7851049 | 9.8860264 |
| 35 | 9.7852691 | 9.8862878 |
| 36 | 9.7854332 | 9.8865492 |
| 37 | 9.7855972 | 9.8868105 |
| 38 | 9.7857611 | 9.8870718 |
| 39 | 9.7859249 | 9.8873330 |
| 40 | 9.7860886 | 9.8875942 |
| 41 | 9.7862522 | 9.8878554 |
| 42 | 9.7864157 | 9.8881165 |
| 43 | 9.7865791 | 9.8883775 |
| 44 | 9.7867424 | 9.8886386 |
| 45 | 9.7869056 | 9.8888996 |
| 46 | 9.7870687 | 9.8891605 |
| 47 | 9.7872317 | 9.8894214 |
| 48 | 9.7873946 | 9.8896823 |
| 49 | 9.7875574 | 9.8899432 |
| 50 | 9.7877202 | 9.8902040 |
| 51 | 9.7878828 | 9.8904647 |
| 52 | 9.7880453 | 9.8907254 |
| 53 | 9.7882077 | 9.8909861 |
| 54 | 9.7883701 | 9.8912468 |
| 55 | 9.7885323 | 9.8915074 |
| 56 | 9.7886944 | 9.8917679 |
| 57 | 9.7888565 | 9.8920285 |
| 58 | 9.7890184 | 9.8922890 |
| 59 | 9.7891802 | 9.8925494 |
| 60 | 9.7893420 | 9.8928098 |

| Minut. | 52. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.8994667 | 10.1150195 |
| 29 | 9.8993697 | 10.1147580 |
| 28 | 9.8992727 | 10.1144965 |
| 27 | 9.8991756 | 10.1142350 |
| 26 | 9.8990784 | 10.1139736 |
| 25 | 9.8989812 | 10.1137122 |
| 24 | 9.8988840 | 10.1134508 |
| 23 | 9.8987867 | 10.1131895 |
| 22 | 9.8986893 | 10.1129282 |
| 21 | 9.8985919 | 10.1126670 |
| 20 | 9.8984944 | 10.1124058 |
| 19 | 9.8983968 | 10.1121446 |
| 18 | 9.8982992 | 10.1118835 |
| 17 | 9.8982015 | 10.1116225 |
| 16 | 9.8981038 | 10.1113614 |
| 15 | 9.8980060 | 10.1111004 |
| 14 | 9.8979082 | 10.1108395 |
| 13 | 9.8978103 | 10.1105786 |
| 12 | 9.8977123 | 10.1103177 |
| 11 | 9.8976143 | 10.1100568 |
| 10 | 9.8975162 | 10.1097960 |
| 9 | 9.8974181 | 10.1095353 |
| 8 | 9.8973199 | 10.1092746 |
| 7 | 9.8972216 | 10.1090139 |
| 6 | 9.8971233 | 10.1087532 |
| 5 | 9.8970249 | 10.1084926 |
| 4 | 9.8969265 | 10.1082321 |
| 3 | 9.8968280 | 10.1079715 |
| 2 | 9.8967294 | 10.1077110 |
| 1 | 9.8966308 | 10.1074506 |
| 0 | 9.8965321 | 10.1071902 |

| Minut. | 38. Grad. | | Minut. | 51. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.7893420 | 9.8928098 | 60 | 9.8965321 | 10.1071962 |
| 1 | 9.7895036 | 9.8930702 | 59 | 9.8964334 | 10.1069298 |
| 2 | 9.7896652 | 9.8933306 | 58 | 9.8963346 | 10.1066694 |
| 3 | 9.7898266 | 9.8935909 | 57 | 9.8962358 | 10.1064091 |
| 4 | 9.7899880 | 9.8938511 | 56 | 9.8961369 | 10.1061485 |
| 5 | 9.7901493 | 9.8941114 | 55 | 9.8960379 | 10.1058886 |
| 6 | 9.7903104 | 9.8943715 | 54 | 9.8959389 | 10.1056285 |
| 7 | 9.7904715 | 9.8946317 | 53 | 9.8958398 | 10.1053683 |
| 8 | 9.7906325 | 9.8948918 | 52 | 9.8957406 | 10.1051082 |
| 9 | 9.7907933 | 9.8951519 | 51 | 9.8956414 | 10.1048481 |
| 10 | 9.7909541 | 9.8954119 | 50 | 9.8955422 | 10.1045881 |
| 11 | 9.7911148 | 9.8956719 | 49 | 9.8954429 | 10.1043281 |
| 12 | 9.7912754 | 9.8959319 | 48 | 9.8953435 | 10.1040681 |
| 13 | 9.7914359 | 9.8961918 | 47 | 9.8952440 | 10.1038082 |
| 14 | 9.7915963 | 9.8964517 | 46 | 9.8951445 | 10.1035483 |
| 15 | 9.7917566 | 9.8967116 | 45 | 9.8950450 | 10.1032884 |
| 16 | 9.7919168 | 9.8969714 | 44 | 9.8949453 | 10.1030286 |
| 17 | 9.7920769 | 9.8972312 | 43 | 9.8948457 | 10.1027688 |
| 18 | 9.7922369 | 9.8974910 | 42 | 9.8947459 | 10.1025090 |
| 19 | 9.7923968 | 9.8977507 | 41 | 9.8946461 | 10.1022493 |
| 20 | 9.7925566 | 9.8980104 | 40 | 9.8945463 | 10.1019896 |
| 21 | 9.7927163 | 9.8982700 | 39 | 9.8944463 | 10.1017300 |
| 22 | 9.7928760 | 9.8985296 | 38 | 9.8943464 | 10.1014704 |
| 23 | 9.7930355 | 9.8987892 | 37 | 9.8942463 | 10.1012108 |
| 24 | 9.7931949 | 9.8990487 | 36 | 9.8941462 | 10.1009513 |
| 25 | 9.7933543 | 9.8993082 | 35 | 9.8940461 | 10.1006918 |
| 26 | 9.7935135 | 9.8995677 | 34 | 9.8939458 | 10.1004323 |
| 27 | 9.7936727 | 9.8998271 | 33 | 9.8938456 | 10.1001729 |
| 28 | 9.7938317 | 9.9000865 | 32 | 9.8937452 | 10.0999135 |
| 29 | 9.7939907 | 9.9003459 | 31 | 9.8936448 | 10.0996541 |
| 30 | 9.7941496 | 9.9006052 | 30 | 9.8935444 | 10.0993948 |

| Minut. | 38. Grad. Log. Sin. | Log. Tang. | Minut. | 51. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.7941496 | 9.9006052 | 30 | 9.8935444 | 10.0993948 |
| 31 | 9.7943083 | 9.9008645 | 29 | 9.8934439 | 10.0991355 |
| 32 | 9.7944670 | 9.9011237 | 28 | 9.8933433 | 10.0988763 |
| 33 | 9.7946256 | 9.9013830 | 27 | 9.8932426 | 10.0986170 |
| 34 | 9.7947841 | 9.9016422 | 26 | 9.8931419 | 10.0983578 |
| 35 | 9.7949425 | 9.9019013 | 25 | 9.8930412 | 10.0980987 |
| 36 | 9.7951008 | 9.9021604 | 24 | 9.8929404 | 10.0978396 |
| 37 | 9.7952590 | 9.9024195 | 23 | 9.8928395 | 10.0975805 |
| 38 | 9.7954171 | 9.9026786 | 22 | 9.8927385 | 10.0973214 |
| 39 | 9.7955751 | 9.9029376 | 21 | 9.8926375 | 10.0970624 |
| 40 | 9.7957330 | 9.9031966 | 20 | 9.8925365 | 10.0968034 |
| 41 | 9.7958909 | 9.9034555 | 19 | 9.8924354 | 10.0965445 |
| 42 | 9.7960486 | 9.9037144 | 18 | 9.8923342 | 10.0962856 |
| 43 | 9.7962062 | 9.9039733 | 17 | 9.8922329 | 10.0960267 |
| 44 | 9.7963638 | 9.9042321 | 16 | 9.8921316 | 10.0957679 |
| 45 | 9.7965212 | 9.9044910 | 15 | 9.8920303 | 10.0955090 |
| 46 | 9.7966786 | 9.9047497 | 14 | 9.8919289 | 10.0952503 |
| 47 | 9.7968359 | 9.9050085 | 13 | 9.8918274 | 10.0949915 |
| 48 | 9.7969930 | 9.9052672 | 12 | 9.8917258 | 10.0947328 |
| 49 | 9.7971501 | 9.9055259 | 11 | 9.8916242 | 10.0944741 |
| 50 | 9.7973071 | 9.9057845 | 10 | 9.8915226 | 10.0942155 |
| 51 | 9.7974640 | 9.9060431 | 9 | 9.8914208 | 10.0939569 |
| 52 | 9.7976208 | 9.9063017 | 8 | 9.8913191 | 10.0936983 |
| 53 | 9.7977775 | 9.9065603 | 7 | 9.8912172 | 10.0934397 |
| 54 | 9.7979341 | 9.9068188 | 6 | 9.8911153 | 10.0931812 |
| 55 | 9.7980906 | 9.9070773 | 5 | 9.8910133 | 10.0929227 |
| 56 | 9.7982470 | 9.9073357 | 4 | 9.8909113 | 10.0926643 |
| 57 | 9.7984034 | 9.9075941 | 3 | 9.8908092 | 10.0924059 |
| 58 | 9.7985596 | 9.9078525 | 2 | 9.8907071 | 10.0921475 |
| 59 | 9.7987158 | 9.9081109 | 1 | 9.8906049 | 10.0918891 |
| 60 | 9.7988718 | 9.9083692 | 0 | 9.8905026 | 10.0916308 |

| Minut. | 39. Grad. | | Minut. | 50. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.7988718 | 9.9083692 | 60 | 9.8905026 | 10.0916308 |
| 1 | 9.7990278 | 9.9086275 | 59 | 9.8904003 | 10.0913725 |
| 2 | 9.7991836 | 9.9088858 | 58 | 9.8902979 | 10.0911142 |
| 3 | 9.7993394 | 9.9091440 | 57 | 9.8901954 | 10.0908560 |
| 4 | 9.7994951 | 9.9094022 | 56 | 9.8900929 | 10.0905978 |
| 5 | 9.7996507 | 9.9096603 | 55 | 9.8899903 | 10.0903397 |
| 6 | 9.7998062 | 9.9099185 | 54 | 9.8898877 | 10.0900815 |
| 7 | 9.7999616 | 9.9101766 | 53 | 9.8897850 | 10.0898234 |
| 8 | 9.8001169 | 9.9104347 | 52 | 9.8896822 | 10.0895653 |
| 9 | 9.8002721 | 9.9106927 | 51 | 9.8895794 | 10.0893073 |
| 10 | 9.8004272 | 9.9109507 | 50 | 9.8894765 | 10.0890493 |
| 11 | 9.8005823 | 9.9112087 | 49 | 9.8893736 | 10.0887913 |
| 12 | 9.8007372 | 9.9114666 | 48 | 9.8892706 | 10.0885334 |
| 13 | 9.8008921 | 9.9117245 | 47 | 9.8891675 | 10.0882755 |
| 14 | 9.8010468 | 9.9119824 | 46 | 9.8890644 | 10.0880176 |
| 15 | 9.8012015 | 9.9122403 | 45 | 9.8889612 | 10.0877597 |
| 16 | 9.8013561 | 9.9124981 | 44 | 9.8888580 | 10.0875019 |
| 17 | 9.8015106 | 9.9127559 | 43 | 9.8887547 | 10.0872441 |
| 18 | 9.8016649 | 9.9130137 | 42 | 9.8886513 | 10.0869863 |
| 19 | 9.8018192 | 9.9132714 | 41 | 9.8885479 | 10.0867286 |
| 20 | 9.8019735 | 9.9135291 | 40 | 9.8884444 | 10.0864709 |
| 21 | 9.8021276 | 9.9137868 | 39 | 9.8883408 | 10.0862132 |
| 22 | 9.8022816 | 9.9140444 | 38 | 9.8882372 | 10.0859556 |
| 23 | 9.8024355 | 9.9143020 | 37 | 9.8881335 | 10.0856980 |
| 24 | 9.8025894 | 9.9145596 | 36 | 9.8880298 | 10.0854404 |
| 25 | 9.8027431 | 9.9148171 | 35 | 9.8879260 | 10.0851829 |
| 26 | 9.8028968 | 9.9150747 | 34 | 9.8878221 | 10.0849253 |
| 27 | 9.8030504 | 9.9153322 | 33 | 9.8877182 | 10.0846678 |
| 28 | 9.8032038 | 9.9155896 | 32 | 9.8876142 | 10.0844104 |
| 29 | 9.8033572 | 9.9158471 | 31 | 9.8875102 | 10.0841529 |
| 30 | 9.8035105 | 9.9161045 | 30 | 9.8874061 | 10.0838955 |

| Minut. | 39. Grad. Log. Sin. | Log. Tang. | Minut. | 50. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.8035105 | 9.9161045 | 30 | 9.8874061 | 10.0838955 |
| 31 | 9.8036637 | 9.9163618 | 29 | 9.8873019 | 10.0836382 |
| 32 | 9.8038168 | 9.9166192 | 28 | 9.8871977 | 10.0833808 |
| 33 | 9.8039699 | 9.9168765 | 27 | 9.8870934 | 10.0831235 |
| 34 | 9.8041228 | 9.9171338 | 26 | 9.8869890 | 10.0828662 |
| 35 | 9.8042757 | 9.9173911 | 25 | 9.8868846 | 10.0826089 |
| 36 | 9.8044284 | 9.9176483 | 24 | 9.8867801 | 10.0823517 |
| 37 | 9.8045811 | 9.9179055 | 23 | 9.8866756 | 10.0820945 |
| 38 | 9.8047336 | 9.9181627 | 22 | 9.8865710 | 10.0818373 |
| 39 | 9.8048861 | 9.9184198 | 21 | 9.8864663 | 10.0815802 |
| 40 | 9.8050385 | 9.9186769 | 20 | 9.8863616 | 10.0813231 |
| 41 | 9.8051908 | 9.9189340 | 19 | 9.8862568 | 10.0810660 |
| 42 | 9.8053430 | 9.9191911 | 18 | 9.8861519 | 10.0808089 |
| 43 | 9.8054951 | 9.9194481 | 17 | 9.8860470 | 10.0805519 |
| 44 | 9.8056472 | 9.9197051 | 16 | 9.8859420 | 10.0802949 |
| 45 | 9.8057991 | 9.9199621 | 15 | 9.8858370 | 10.0800379 |
| 46 | 9.8059510 | 9.9202191 | 14 | 9.8857319 | 10.0797809 |
| 47 | 9.8061027 | 9.9204760 | 13 | 9.8856267 | 10.0795240 |
| 48 | 9.8062544 | 9.9207329 | 12 | 9.8855215 | 10.0792671 |
| 49 | 9.8064060 | 9.9209898 | 11 | 9.8854162 | 10.0790102 |
| 50 | 9.8065575 | 9.9212466 | 10 | 9.8853109 | 10.0787534 |
| 51 | 9.8067089 | 9.9215034 | 9 | 9.8852055 | 10.0784966 |
| 52 | 9.8068602 | 9.9217602 | 8 | 9.8851000 | 10.0782398 |
| 53 | 9.8070114 | 9.9220170 | 7 | 9.8849945 | 10.0779830 |
| 54 | 9.8071626 | 9.9222737 | 6 | 9.8848889 | 10.0777263 |
| 55 | 9.8073136 | 9.9225304 | 5 | 9.8847832 | 10.0774696 |
| 56 | 9.8074646 | 9.9227871 | 4 | 9.8846775 | 10.0772129 |
| 57 | 9.8076154 | 9.9230437 | 3 | 9.8845717 | 10.0769563 |
| 58 | 9.8077662 | 9.9233004 | 2 | 9.8844659 | 10.0766996 |
| 59 | 9.8079169 | 9.9235570 | 1 | 9.8843599 | 10.0764430 |
| 60 | 9.8080675 | 9.9238135 | 0 | 9.8842540 | 10.0761865 |

| Minut. | 40. Grad. | | Minut. | 49. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 0 | 9.8080675 | 9.9238135 | 60 | 9.8842540 | 10.0761865 |
| 1 | 9.8082180 | 9.9240701 | 59 | 9.8841479 | 10.0759299 |
| 2 | 9.8083684 | 9.9243266 | 58 | 9.8840418 | 10.0756734 |
| 3 | 9.8085188 | 9.9245831 | 57 | 9.8839357 | 10.0754169 |
| 4 | 9.8086690 | 9.9248396 | 56 | 9.8838294 | 10.0751604 |
| 5 | 9.8088192 | 9.9250960 | 55 | 9.8837232 | 10.0749040 |
| 6 | 9.8089692 | 9.9253524 | 54 | 9.8836168 | 10.0746476 |
| 7 | 9.8091192 | 9.9256088 | 53 | 9.8835104 | 10.0743912 |
| 8 | 9.8092691 | 9.9258652 | 52 | 9.8834039 | 10.0741348 |
| 9 | 9.8094189 | 9.9261215 | 51 | 9.8832974 | 10.0738785 |
| 10 | 9.8095686 | 9.9263778 | 50 | 9.8831908 | 10.0736222 |
| 11 | 9.8097182 | 9.9266341 | 49 | 9.8830841 | 10.0733659 |
| 12 | 9.8098678 | 9.9268904 | 48 | 9.8829774 | 10.0731096 |
| 13 | 9.8100172 | 9.9271466 | 47 | 9.8828706 | 10.0728534 |
| 14 | 9.8101666 | 9.9274028 | 46 | 9.8827638 | 10.0725972 |
| 15 | 9.8103159 | 9.9276590 | 45 | 9.8826568 | 10.0723410 |
| 16 | 9.8104650 | 9.9279152 | 44 | 9.8825499 | 10.0720848 |
| 17 | 9.8106141 | 9.9281713 | 43 | 9.8824428 | 10.0718287 |
| 18 | 9.8107631 | 9.9284274 | 42 | 9.8823357 | 10.0715726 |
| 19 | 9.8109121 | 9.9286835 | 41 | 9.8822285 | 10.0713165 |
| 20 | 9.8110609 | 9.9289396 | 40 | 9.8821213 | 10.0710604 |
| 21 | 9.8112096 | 9.9291956 | 39 | 9.8820140 | 10.0708044 |
| 22 | 9.8113583 | 9.9294516 | 38 | 9.8819067 | 10.0705484 |
| 23 | 9.8115069 | 9.9297076 | 37 | 9.8817992 | 10.0702924 |
| 24 | 9.8116554 | 9.9299636 | 36 | 9.8816918 | 10.0700364 |
| 25 | 9.8118038 | 9.9302195 | 35 | 9.8815842 | 10.0697805 |
| 26 | 9.8119521 | 9.9304755 | 34 | 9.8814766 | 10.0695245 |
| 27 | 9.8121003 | 9.9307314 | 33 | 9.8813689 | 10.0692686 |
| 28 | 9.8122484 | 9.9309872 | 32 | 9.8812612 | 10.0690128 |
| 29 | 9.8123965 | 9.9312431 | 31 | 9.8811534 | 10.0687569 |
| 30 | 9.8125444 | 9.9314989 | 30 | 9.8810455 | 10.0685011 |

| Minut. | 40. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.8125444 | 9.9314989 |
| 31 | 9.8126923 | 9.9317547 |
| 32 | 9.8128401 | 9.9320105 |
| 33 | 9.8129878 | 9.9322662 |
| 34 | 9.8131354 | 9.9325220 |
| 35 | 9.8132829 | 9.9327777 |
| 36 | 9.8134303 | 9.9330334 |
| 37 | 9.8135777 | 9.9332890 |
| 38 | 9.8137250 | 9.9335446 |
| 39 | 9.8138721 | 9.9338003 |
| 40 | 9.8140192 | 9.9340559 |
| 41 | 9.8141662 | 9.9343114 |
| 42 | 9.8143131 | 9.9345670 |
| 43 | 9.8144600 | 9.9348225 |
| 44 | 9.8146067 | 9.9350780 |
| 45 | 9.8147534 | 9.9353335 |
| 46 | 9.8148999 | 9.9355889 |
| 47 | 9.8150464 | 9.9358444 |
| 48 | 9.8151928 | 9.9360998 |
| 49 | 9.8153391 | 9.9363552 |
| 50 | 9.8154854 | 9.9366105 |
| 51 | 9.8156315 | 9.9368659 |
| 52 | 9.8157776 | 9.9371212 |
| 53 | 9.8159235 | 9.9373765 |
| 54 | 9.8160694 | 9.9376318 |
| 55 | 9.8162152 | 9.9378871 |
| 56 | 9.8163609 | 9.9381423 |
| 57 | 9.8165066 | 9.9383975 |
| 58 | 9.8166521 | 9.9386527 |
| 59 | 9.8167975 | 9.9389079 |
| 60 | 9.8169429 | 9.9391631 |

| Minut. | 49. Grad. Log. Sin. | Log. Tang. |
|---|---|---|
| 30 | 9.8810455 | 10.0685011 |
| 29 | 9.8809376 | 10.0682453 |
| 28 | 9.8808296 | 10.0679895 |
| 27 | 9.8807215 | 10.0677338 |
| 26 | 9.8806134 | 10.0674780 |
| 25 | 9.8805052 | 10.0672223 |
| 24 | 9.8803970 | 10.0669666 |
| 23 | 9.8802887 | 10.0667110 |
| 22 | 9.8801803 | 10.0664554 |
| 21 | 9.8800719 | 10.0661997 |
| 20 | 9.8799634 | 10.0659441 |
| 19 | 9.8798548 | 10.0656886 |
| 18 | 9.8797462 | 10.0654330 |
| 17 | 9.8796375 | 10.0651775 |
| 16 | 9.8795287 | 10.0649220 |
| 15 | 9.8794199 | 10.0646665 |
| 14 | 9.8793110 | 10.0644111 |
| 13 | 9.8792021 | 10.0641556 |
| 12 | 9.8790930 | 10.0639002 |
| 11 | 9.8789840 | 10.0636448 |
| 10 | 9.8788748 | 10.0633895 |
| 9 | 9.8787656 | 10.0631341 |
| 8 | 9.8786563 | 10.0628788 |
| 7 | 9.8785470 | 10.0626235 |
| 6 | 9.8784376 | 10.0623682 |
| 5 | 9.8783281 | 10.0621129 |
| 4 | 9.8782186 | 10.0618577 |
| 3 | 9.8781090 | 10.0616025 |
| 2 | 9.8779994 | 10.0613473 |
| 1 | 9.8778896 | 10.0610921 |
| 0 | 9.8777799 | 10.0608369 |

| Minut. | 41. Grad. | | |
|---|---|---|---|
| | Log. Sin. | Log. Tang. | |
| 0 | 9.8169429 | 9.9391631 | |
| 1 | 9.8170882 | 9.9394182 | |
| 2 | 9.8172334 | 9.9396733 | |
| 3 | 9.8173785 | 9.9399284 | |
| 4 | 9.8175235 | 9.9401835 | |
| 5 | 9.8176685 | 9.9404385 | |
| 6 | 9.8178133 | 9.9406936 | |
| 7 | 9.8179581 | 9.9409486 | |
| 8 | 9.8181028 | 9.9412036 | |
| 9 | 9.8182474 | 9.9414585 | |
| 10 | 9.8183919 | 9.9417135 | |
| 11 | 9.8185364 | 9.9419684 | |
| 12 | 9.8186807 | 9.9422233 | |
| 13 | 9.8188250 | 9.9424782 | |
| 14 | 9.8189692 | 9.9427331 | |
| 15 | 9.8191133 | 9.9429879 | |
| 16 | 9.8192573 | 9.9432428 | |
| 17 | 9.8194012 | 9.9434976 | |
| 18 | 9.8195450 | 9.9437524 | |
| 19 | 9.8196888 | 9.9440072 | |
| 20 | 9.8198325 | 9.9442619 | |
| 21 | 9.8199761 | 9.9445166 | |
| 22 | 9.8201196 | 9.9447714 | |
| 23 | 9.8202630 | 9.9450261 | |
| 24 | 9.8204063 | 9.9452807 | |
| 25 | 9.8205496 | 9.9455354 | |
| 26 | 9.8206927 | 9.9457900 | |
| 27 | 9.8208358 | 9.9460447 | |
| 28 | 9.8209788 | 9.9462993 | |
| 29 | 9.8211217 | 9.9465539 | |
| 30 | 9.8212646 | 9.9468084 | |

| Minut. | 48. Grad. | | |
|---|---|---|---|
| | Log. Sin. | Log. Tang. | |
| 60 | 9.8777799 | 10.0608369 | |
| 59 | 9.8776700 | 10.0605818 | |
| 58 | 9.8775601 | 10.0603267 | |
| 57 | 9.8774501 | 10.0600716 | |
| 56 | 9.8773401 | 10.0598165 | |
| 55 | 9.8772300 | 10.0595615 | |
| 54 | 9.8771198 | 10.0593064 | |
| 53 | 9.8770096 | 10.0590514 | |
| 52 | 9.8768993 | 10.0587964 | |
| 51 | 9.8767889 | 10.0585415 | |
| 50 | 9.8766785 | 10.0582865 | |
| 49 | 9.8765680 | 10.0580316 | |
| 48 | 9.8764574 | 10.0577767 | |
| 47 | 9.8763468 | 10.0575218 | |
| 46 | 9.8762361 | 10.0572669 | |
| 45 | 9.8761253 | 10.0570121 | |
| 44 | 9.8760145 | 10.0567572 | |
| 43 | 9.8759036 | 10.0565024 | |
| 42 | 9.8757927 | 10.0562476 | |
| 41 | 9.8756816 | 10.0559928 | |
| 40 | 9.8755706 | 10.0557381 | |
| 39 | 9.8754594 | 10.0554834 | |
| 38 | 9.8753482 | 10.0552286 | |
| 37 | 9.8752369 | 10.0549739 | |
| 36 | 9.8751256 | 10.0547193 | |
| 35 | 9.8750142 | 10.0544646 | |
| 34 | 9.8749027 | 10.0542100 | |
| 33 | 9.8747912 | 10.0539553 | |
| 32 | 9.8746795 | 10.0537007 | |
| 31 | 9.8745679 | 10.0534461 | |
| 30 | 9.8744561 | 10.0531916 | |

| Minut. | 41. Grad. | | |
|---|---|---|---|
| | Log. Sin. | Log. Tang. | |
| 30 | 9.8212646 | 9.9468084 | |
| 31 | 9.8214073 | 9.9470630 | |
| 32 | 9.8215500 | 9.9473175 | |
| 33 | 9.8216926 | 9.9475720 | |
| 34 | 9.8218351 | 9.9478265 | |
| 35 | 9.8219775 | 9.9480810 | |
| 36 | 9.8221198 | 9.9483355 | |
| 37 | 9.8222621 | 9.9485899 | |
| 38 | 9.8224042 | 9.9488443 | |
| 39 | 9.8225463 | 9.9490987 | |
| 40 | 9.8226883 | 9.9493531 | |
| 41 | 9.8228302 | 9.9496075 | |
| 42 | 9.8229721 | 9.9498619 | |
| 43 | 9.8231138 | 9.9501162 | |
| 44 | 9.8232555 | 9.9503705 | |
| 45 | 9.8233971 | 9.9506248 | |
| 46 | 9.8235386 | 9.9508791 | |
| 47 | 9.8236800 | 9.9511334 | |
| 48 | 9.8238213 | 9.9513876 | |
| 49 | 9.8239626 | 9.9516419 | |
| 50 | 9.8241037 | 9.9518961 | |
| 51 | 9.8242448 | 9.9521503 | |
| 52 | 9.8243858 | 9.9524045 | |
| 53 | 9.8245267 | 9.9526587 | |
| 54 | 9.8246676 | 9.9529128 | |
| 55 | 9.8248083 | 9.9531670 | |
| 56 | 9.8249490 | 9.9534211 | |
| 57 | 9.8250896 | 9.9536752 | |
| 58 | 9.8252301 | 9.9539293 | |
| 59 | 9.8253705 | 9.9541834 | |
| 60 | 9.8255109 | 9.9544374 | |

| Minut. | 48. Grad. | |
|---|---|---|
| | Log. Sin. | Log. Tang. |
| 30 | 9.8744561 | 10.0531916 |
| 29 | 9.8743443 | 10.0529370 |
| 28 | 9.8742325 | 10.0526825 |
| 27 | 9.8741205 | 10.0524280 |
| 26 | 9.8740085 | 10.0521735 |
| 25 | 9.8738965 | 10.0519190 |
| 24 | 9.8737844 | 10.0516645 |
| 23 | 9.8736722 | 10.0514101 |
| 22 | 9.8735599 | 10.0511557 |
| 21 | 9.8734476 | 10.0509013 |
| 20 | 9.8733352 | 10.0506469 |
| 19 | 9.8732227 | 10.0503925 |
| 18 | 9.8731102 | 10.0501381 |
| 17 | 9.8729976 | 10.0498838 |
| 16 | 9.8728849 | 10.0496295 |
| 15 | 9.8727722 | 10.0493752 |
| 14 | 9.8726594 | 10.0491209 |
| 13 | 9.8725466 | 10.0488666 |
| 12 | 9.8724337 | 10.0486124 |
| 11 | 9.8723207 | 10.0483581 |
| 10 | 9.8722076 | 10.0481039 |
| 9 | 9.8720945 | 10.0478497 |
| 8 | 9.8719813 | 10.0475955 |
| 7 | 9.8718681 | 10.0473413 |
| 6 | 9.8717548 | 10.0470872 |
| 5 | 9.8716414 | 10.0468330 |
| 4 | 9.8715279 | 10.0465789 |
| 3 | 9.8714144 | 10.0463248 |
| 2 | 9.8713008 | 10.0460707 |
| 1 | 9.8711872 | 10.0458166 |
| 0 | 9.8710735 | 10.0455626 |

| Minut. | 42. Grad. Log. Sin. | Log. Tang. | Minut. | 47. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.8255109 | 9.9544374 | 60 | 9.8710735 | 10.0455626 |
| 1 | 9.8256512 | 9.9546915 | 59 | 9.8709597 | 10.0453085 |
| 2 | 9.8257913 | 9.9549455 | 58 | 9.8708458 | 10.0450545 |
| 3 | 9.8259314 | 9.9551995 | 57 | 9.8707319 | 10.0448005 |
| 4 | 9.8260715 | 9.9554535 | 56 | 9.8706179 | 10.0445465 |
| 5 | 9.8262114 | 9.9557075 | 55 | 9.8705039 | 10.0442925 |
| 6 | 9.8263512 | 9.9559615 | 54 | 9.8703898 | 10.0440385 |
| 7 | 9.8264910 | 9.9562154 | 53 | 9.8702756 | 10.0437846 |
| 8 | 9.8266307 | 9.9564694 | 52 | 9.8701613 | 10.0435306 |
| 9 | 9.8267703 | 9.9567233 | 51 | 9.8700470 | 10.0432767 |
| 10 | 9.8269098 | 9.9569772 | 50 | 9.8699326 | 10.0430228 |
| 11 | 9.8270493 | 9.9572311 | 49 | 9.8698182 | 10.0427689 |
| 12 | 9.8271887 | 9.9574850 | 48 | 9.8697037 | 10.0425150 |
| 13 | 9.8273279 | 9.9577389 | 47 | 9.8695891 | 10.0422611 |
| 14 | 9.8274671 | 9.9579927 | 46 | 9.8694744 | 10.0420073 |
| 15 | 9.8276063 | 9.9582465 | 45 | 9.8693597 | 10.0417535 |
| 16 | 9.8277453 | 9.9585004 | 44 | 9.8692449 | 10.0414996 |
| 17 | 9.8278843 | 9.9587542 | 43 | 9.8691301 | 10.0412458 |
| 18 | 9.8280231 | 9.9590080 | 42 | 9.8690152 | 10.0409920 |
| 19 | 9.8281619 | 9.9592618 | 41 | 9.8689002 | 10.0407382 |
| 20 | 9.8283006 | 9.9595155 | 40 | 9.8687851 | 10.0404845 |
| 21 | 9.8284393 | 9.9597693 | 39 | 9.8686700 | 10.0402307 |
| 22 | 9.8285778 | 9.9600230 | 38 | 9.8685548 | 10.0399770 |
| 23 | 9.8287163 | 9.9602767 | 37 | 9.8684396 | 10.0397233 |
| 24 | 9.8288547 | 9.9605305 | 36 | 9.8683242 | 10.0394695 |
| 25 | 9.8289930 | 9.9607842 | 35 | 9.8682088 | 10.0392158 |
| 26 | 9.8291312 | 9.9610378 | 34 | 9.8680934 | 10.0389622 |
| 27 | 9.8292694 | 9.9612915 | 33 | 9.8679779 | 10.0387085 |
| 28 | 9.8294075 | 9.9615452 | 32 | 9.8678623 | 10.0384548 |
| 29 | 9.8295454 | 9.9617988 | 31 | 9.8677466 | 10.0382012 |
| 30 | 9.8296833 | 9.9620525 | 30 | 9.8676309 | 10.0379475 |

| Minut. | 42. Grad. | | Minut. | 47. Grad. | |
|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | Log. Sin. | Log. Tang. |
| 30 | 9.8296833 | 9.9620525 | 30 | 9.8676309 | 10.0379475 |
| 31 | 9.8298212 | 9.9623061 | 29 | 9.8675151 | 10.0376939 |
| 32 | 9.8299589 | 9.9625597 | 28 | 9.8673992 | 10.0374403 |
| 33 | 9.8300966 | 9.9628133 | 27 | 9.8672833 | 10.0371833 |
| 34 | 9.8302342 | 9.9630669 | 26 | 9.8671673 | 10.0369331 |
| 35 | 9.8303717 | 9.9633204 | 25 | 9.8670512 | 10.0366796 |
| 36 | 9.8305091 | 9.9635740 | 24 | 9.8669351 | 10.0364260 |
| 37 | 9.8306464 | 9.9638275 | 23 | 9.8668189 | 10.0361725 |
| 38 | 9.8307837 | 9.9640811 | 22 | 9.8667026 | 10.0359189 |
| 39 | 9.8309209 | 9.9643346 | 21 | 9.8665863 | 10.0356654 |
| 40 | 9.8310580 | 9.9645881 | 20 | 9.8664699 | 10.0354119 |
| 41 | 9.8311950 | 9.9648416 | 19 | 9.8663534 | 10.0351584 |
| 42 | 9.8313320 | 9.9650951 | 18 | 9.8662369 | 10.0349049 |
| 43 | 9.8314688 | 9.9653486 | 17 | 9.8661203 | 10.0346514 |
| 44 | 9.8316056 | 9.9656020 | 16 | 9.8660036 | 10.0343980 |
| 45 | 9.8317423 | 9.9658555 | 15 | 9.8658868 | 10.0341445 |
| 46 | 9.8318789 | 9.9661089 | 14 | 9.8657700 | 10.0338911 |
| 47 | 9.8320155 | 9.9663623 | 13 | 9.8656531 | 10.0336377 |
| 48 | 9.8321519 | 9.9666157 | 12 | 9.8655362 | 10.0333843 |
| 49 | 9.8322883 | 9.9668692 | 11 | 9.8654192 | 10.0331308 |
| 50 | 9.8324246 | 9.9671225 | 10 | 9.8653021 | 10.0328775 |
| 51 | 9.8325609 | 9.9673759 | 9 | 9.8651849 | 10.0326241 |
| 52 | 9.8326970 | 9.9676293 | 8 | 9.8650677 | 10.0323707 |
| 53 | 9.8328331 | 9.9678827 | 7 | 9.8649504 | 10.0321173 |
| 54 | 9.8329691 | 9.9681360 | 6 | 9.8648331 | 10.0318640 |
| 55 | 9.8331050 | 9.9683893 | 5 | 9.8647156 | 10.0316107 |
| 56 | 9.8332408 | 9.9686427 | 4 | 9.8645981 | 10.0313573 |
| 57 | 9.8333766 | 9.9688960 | 3 | 9.8644806 | 10.0311040 |
| 58 | 9.8335122 | 9.9691493 | 2 | 9.8643629 | 10.0308507 |
| 59 | 9.8336478 | 9.9694026 | 1 | 9.8642452 | 10.0305974 |
| 60 | 9.8337833 | 9.9696559 | 0 | 9.8641275 | 10.0303441 |

| Minut. | 43. Grad. Log. Sin. | Log. Tang. | Minut. | 46. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 0 | 9.8337833 | 9.9696559 | 60 | 9.8641275 | 10.0303441 |
| 1 | 9.8339188 | 9.9699091 | 59 | 9.8640096 | 10.0300909 |
| 2 | 9.8340541 | 9.9701622 | 58 | 9.8638917 | 10.0298376 |
| 3 | 9.8341894 | 9.9704157 | 57 | 9.8637737 | 10.0295843 |
| 4 | 9.8343246 | 9.9706689 | 56 | 9.8636557 | 10.0293311 |
| 5 | 9.8344597 | 9.9709221 | 55 | 9.8635376 | 10.0290779 |
| 6 | 9.8345948 | 9.9711754 | 54 | 9.8634194 | 10.0288246 |
| 7 | 9.8347297 | 9.9714286 | 53 | 9.8633011 | 10.0285714 |
| 8 | 9.8348646 | 9.9716818 | 52 | 9.8631828 | 10.0283182 |
| 9 | 9.8349994 | 9.9719350 | 51 | 9.8630644 | 10.0280650 |
| 10 | 9.8351341 | 9.9721882 | 50 | 9.8629460 | 10.0278118 |
| 11 | 9.8352688 | 9.9724413 | 49 | 9.8628274 | 10.0275587 |
| 12 | 9.8354033 | 9.9726945 | 48 | 9.8627088 | 10.0273055 |
| 13 | 9.8355378 | 9.9729477 | 47 | 9.8625903 | 10.0270523 |
| 14 | 9.8356722 | 9.9732008 | 46 | 9.8624714 | 10.0267992 |
| 15 | 9.8358066 | 9.9734539 | 45 | 9.8623526 | 10.0265461 |
| 16 | 9.8359408 | 9.9737071 | 44 | 9.8622338 | 10.0262929 |
| 17 | 9.8360750 | 9.9739602 | 43 | 9.8621148 | 10.0260398 |
| 18 | 9.8362091 | 9.9742133 | 42 | 9.8619958 | 10.0257867 |
| 19 | 9.8363431 | 9.9744664 | 41 | 9.8618767 | 10.0255336 |
| 20 | 9.8364771 | 9.9747195 | 40 | 9.8617576 | 10.0252805 |
| 21 | 9.8366109 | 9.9749726 | 39 | 9.8616383 | 10.0250274 |
| 22 | 9.8367447 | 9.9752257 | 38 | 9.8615190 | 10.0247743 |
| 23 | 9.8368784 | 9.9754787 | 37 | 9.8613997 | 10.0245213 |
| 24 | 9.8370121 | 9.9757318 | 36 | 9.8612803 | 10.0242682 |
| 25 | 9.8371456 | 9.9759849 | 35 | 9.8611608 | 10.0240151 |
| 26 | 9.8372791 | 9.9762379 | 34 | 9.8610412 | 10.0237621 |
| 27 | 9.8374125 | 9.9764909 | 33 | 9.8609215 | 10.0235091 |
| 28 | 9.8375458 | 9.9767440 | 32 | 9.8608018 | 10.0232560 |
| 29 | 9.8376790 | 9.9769970 | 31 | 9.8606821 | 10.0230030 |
| 30 | 9.8378122 | 9.9772500 | 30 | 9.8605622 | 10.0227500 |

| Minut. | 43. Grad. | | |
|---|---|---|---|
| | Log. Sin. | Log. Tang. | |
| 30 | 9.8378122 | 9.9772500 | |
| 31 | 9.8379453 | 9.9775030 | |
| 32 | 9.8380783 | 9.9777560 | |
| 33 | 9.8382112 | 9.9780090 | |
| 34 | 9.8383441 | 9.9782620 | |
| 35 | 9.8384769 | 9.9785149 | |
| 36 | 9.8386096 | 9.9787679 | |
| 37 | 9.8387422 | 9.9790209 | |
| 38 | 9.8388747 | 9.9792738 | |
| 39 | 9.8390072 | 9.9795268 | |
| 40 | 9.8391396 | 9.9797797 | |
| 41 | 9.8392719 | 9.9800326 | |
| 42 | 9.8394041 | 9.9802856 | |
| 43 | 9.8395363 | 9.9805385 | |
| 44 | 9.8396684 | 9.9807914 | |
| 45 | 9.8398004 | 9.9810443 | |
| 46 | 9.8399323 | 9.9812972 | |
| 47 | 9.8400642 | 9.9815501 | |
| 48 | 9.8401959 | 9.9818030 | |
| 49 | 9.8403276 | 9.9820559 | |
| 50 | 9.8404593 | 9.9823087 | |
| 51 | 9.8405908 | 9.9825616 | |
| 52 | 9.8407223 | 9.9828145 | |
| 53 | 9.8408537 | 9.9830673 | |
| 54 | 9.8409850 | 9.9833202 | |
| 55 | 9.8411162 | 9.9835730 | |
| 56 | 9.8412474 | 9.9838259 | |
| 57 | 9.8413785 | 9.9840787 | |
| 58 | 9.8415095 | 9.9843315 | |
| 59 | 9.8416404 | 9.9845844 | |
| 60 | 9.8417713 | 9.9848372 | |

| Minut. | 46. Grad. | | |
|---|---|---|---|
| | Log. Sin. | Log. Tang. | |
| 30 | 9.8605622 | 10.0227500 | |
| 29 | 9.8604423 | 10.0224970 | |
| 28 | 9.8603223 | 10.0222440 | |
| 27 | 9.8602022 | 10.0219910 | |
| 26 | 9.8600821 | 10.0217380 | |
| 25 | 9.8599619 | 10.0214851 | |
| 24 | 9.8598416 | 10.0212321 | |
| 23 | 9.8597213 | 10.0209791 | |
| 22 | 9.8596009 | 10.0207262 | |
| 21 | 9.8594804 | 10.0204732 | |
| 20 | 9.8593599 | 10.0202203 | |
| 19 | 9.8592393 | 10.0199674 | |
| 18 | 9.8591186 | 10.0197144 | |
| 17 | 9.8589978 | 10.0194615 | |
| 16 | 9.8588770 | 10.0192086 | |
| 15 | 9.8587561 | 10.0189557 | |
| 14 | 9.8586351 | 10.0187028 | |
| 13 | 9.8585141 | 10.0184499 | |
| 12 | 9.8583929 | 10.0181970 | |
| 11 | 9.8582718 | 10.0179441 | |
| 10 | 9.8581505 | 10.0176913 | |
| 9 | 9.8580292 | 10.0174384 | |
| 8 | 9.8579078 | 10.0171855 | |
| 7 | 9.8577863 | 10.0169327 | |
| 6 | 9.8576648 | 10.0166798 | |
| 5 | 9.8575432 | 10.0164270 | |
| 4 | 9.8574215 | 10.0161741 | |
| 3 | 9.8572998 | 10.0159213 | |
| 2 | 9.8571779 | 10.0156685 | |
| 1 | 9.8570561 | 10.0154156 | |
| 0 | 9.8569341 | 10.0151628 | |

| Minut. | 44. Grad. | | | Minut. | 45. Grad. | | |
|---|---|---|---|---|---|---|---|
| | Log. Sin. | Log. Tang. | | | Log. Sin. | Log. Tang. | |
| 0 | 9.8417713 | 9.9848372 | | 60 | 9.8569341 | 10.0151628 | |
| 1 | 9.8419021 | 9.9850900 | | 59 | 9.8568141 | 10.0149100 | |
| 2 | 9.8420328 | 9.9853428 | | 58 | 9.8566900 | 10.0146572 | |
| 3 | 9.8421634 | 9.9855956 | | 57 | 9.8565678 | 10.0144044 | |
| 4 | 9.8422939 | 9.9858484 | | 56 | 9.8564455 | 10.0141516 | |
| 5 | 9.8424244 | 9.9861012 | | 55 | 9.8563232 | 10.0138988 | |
| 6 | 9.8425548 | 9.9863540 | | 54 | 9.8562008 | 10.0136460 | |
| 7 | 9.8426851 | 9.9866068 | | 53 | 9.8560784 | 10.0133932 | |
| 8 | 9.8428154 | 9.9868596 | | 52 | 9.8559558 | 10.0131404 | |
| 9 | 9.8429456 | 9.9871123 | | 51 | 9.8558332 | 10.0128877 | |
| 10 | 9.8430757 | 9.9873651 | | 50 | 9.8557106 | 10.0126349 | |
| 11 | 9.8432057 | 9.9876179 | | 49 | 9.8555878 | 10.0123821 | |
| 12 | 9.8433356 | 9.9878706 | | 48 | 9.8554650 | 10.0121294 | |
| 13 | 9.8434655 | 9.9881234 | | 47 | 9.8553421 | 10.0118766 | |
| 14 | 9.8435953 | 9.9883761 | | 46 | 9.8552192 | 10.0116239 | |
| 15 | 9.8437250 | 9.9886289 | | 45 | 9.8550961 | 10.0113711 | |
| 16 | 9.8438547 | 9.9888816 | | 44 | 9.8549730 | 10.0111184 | |
| 17 | 9.8439842 | 9.9891344 | | 43 | 9.8548499 | 10.0108656 | |
| 18 | 9.8441137 | 9.9893871 | | 42 | 9.8547266 | 10.0106129 | |
| 19 | 9.8442432 | 9.9896399 | | 41 | 9.8546033 | 10.0103601 | |
| 20 | 9.8443725 | 9.9898926 | | 40 | 9.8544799 | 10.0101074 | |
| 21 | 9.8445018 | 9.9901453 | | 39 | 9.8543564 | 10.0098547 | |
| 22 | 9.8446310 | 9.9903981 | | 38 | 9.8542329 | 10.0096019 | |
| 23 | 9.8447601 | 9.9906508 | | 37 | 9.8541093 | 10.0093492 | |
| 24 | 9.8448891 | 9.9909035 | | 36 | 9.8539856 | 10.0090965 | |
| 25 | 9.8450181 | 9.9911562 | | 35 | 9.8538619 | 10.0088438 | |
| 26 | 9.8451470 | 9.9914089 | | 34 | 9.8537381 | 10.0085911 | |
| 27 | 9.8452758 | 9.9916616 | | 33 | 9.8536142 | 10.0083384 | |
| 28 | 9.8454045 | 9.9919143 | | 32 | 9.8534902 | 10.0080857 | |
| 29 | 9.8455332 | 9.9921670 | | 31 | 9.8533662 | 10.0078330 | |
| 30 | 9.8456618 | 9.9924197 | | 30 | 9.8532421 | 10.0075803 | |

| Minut. | 44. Grad. Log. Sin. | Log. Tang. | Minut. | 45. Grad. Log. Sin. | Log. Tang. |
|---|---|---|---|---|---|
| 30 | 9.8456618 | 9.9924197 | 30 | 9.8532421 | 10.0075803 |
| 31 | 9.8457803 | 9.9926724 | 29 | 9.8531179 | 10.0073276 |
| 32 | 9.8459188 | 9.9929251 | 28 | 9.8529936 | 10.0070749 |
| 33 | 9.8460471 | 9.9931778 | 27 | 9.8528693 | 10.0068222 |
| 34 | 9.8461754 | 9.9934305 | 26 | 9.8527449 | 10.0065695 |
| 35 | 9.8463036 | 9.9936832 | 25 | 9.8526204 | 10.0063168 |
| 36 | 9.8464318 | 9.9939359 | 24 | 9.8524959 | 10.0060641 |
| 37 | 9.8465599 | 9.9941886 | 23 | 9.8523713 | 10.0058114 |
| 38 | 9.8466879 | 9.9944413 | 22 | 9.8522466 | 10.0055587 |
| 39 | 9.8468158 | 9.9946940 | 21 | 9.8521218 | 10.0053060 |
| 40 | 9.8469436 | 9.9949466 | 20 | 9.8519970 | 10.0050534 |
| 41 | 9.8470714 | 9.9951993 | 19 | 9.8518721 | 10.0048007 |
| 42 | 9.8471991 | 9.9954520 | 18 | 9.8517471 | 10.0045480 |
| 43 | 9.8473267 | 9.9957047 | 17 | 9.8516220 | 10.0042953 |
| 44 | 9.8474543 | 9.9959573 | 16 | 9.8514969 | 10.0040427 |
| 45 | 9.8475817 | 9.9962100 | 15 | 9.8513717 | 10.0037900 |
| 46 | 9.8477091 | 9.9964627 | 14 | 9.8512465 | 10.0035373 |
| 47 | 9.8478365 | 9.9967154 | 13 | 9.8511211 | 10.0032846 |
| 48 | 9.8479637 | 9.9969680 | 12 | 9.8509957 | 10.0030320 |
| 49 | 9.8480909 | 9.9972207 | 11 | 9.8508702 | 10.0027793 |
| 50 | 9.8482180 | 9.9974734 | 10 | 9.8507446 | 10.0025266 |
| 51 | 9.8483450 | 9.9977260 | 9 | 9.8506190 | 10.0022740 |
| 52 | 9.8484720 | 9.9979787 | 8 | 9.8504933 | 10.0020213 |
| 53 | 9.8485989 | 9.9982314 | 7 | 9.8503675 | 10.0017686 |
| 54 | 9.8487257 | 9.9984840 | 6 | 9.8502417 | 10.0015160 |
| 55 | 9.8488524 | 9.9987367 | 5 | 9.8501157 | 10.0012633 |
| 56 | 9.8489791 | 9.9989893 | 4 | 9.8499897 | 10.0010107 |
| 57 | 9.8491057 | 9.9992420 | 3 | 9.8498637 | 10.0007580 |
| 58 | 9.8492322 | 9.9994947 | 2 | 9.8497375 | 10.0005053 |
| 59 | 9.8493586 | 9.9997473 | 1 | 9.8496113 | 10.0002527 |
| 60 | 9.8494850 | 10.000000 | 0 | 9.8494850 | 10.0000000 |

# H. BRIGGII
## TABULA
# LOGARITHMORUM,

Pro numeris naturali ſerie
creſcentibus.

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1 | 0.0000000 | 34 | 1.5314789 | 67 | 1.8260748 |
| 2 | 0.3010300 | 35 | 1.5440680 | 68 | 1.8325089 |
| 3 | 0.4771213 | 36 | 1.5563025 | 69 | 1.8388491 |
| 4 | 0.6020600 | 37 | 1.5682017 | 70 | 1.8450980 |
| 5 | 0.6989700 | 38 | 1.5797836 | 71 | 1.8512583 |
| 6 | 0.7781513 | 39 | 1.5910646 | 72 | 1.8573325 |
| 7 | 0.8450980 | 40 | 1.6020600 | 73 | 1.8633229 |
| 8 | 0.9030900 | 41 | 1.6127839 | 74 | 1.8692317 |
| 9 | 0.9542425 | 42 | 1.6232493 | 75 | 1.8750613 |
| 10 | 1.0000000 | 43 | 1.6334685 | 76 | 1.8808136 |
| 11 | 1.0413927 | 44 | 1.6434527 | 77 | 1.8864907 |
| 12 | 1.0791812 | 45 | 1.6532125 | 78 | 1.8920946 |
| 13 | 1.1139433 | 46 | 1.6627578 | 79 | 1.8976271 |
| 14 | 1.1461280 | 47 | 1.6720979 | 80 | 1.9030900 |
| 15 | 1.1760913 | 48 | 1.6812412 | 81 | 1.9084850 |
| 16 | 1.2041200 | 49 | 1.6901961 | 82 | 1.9138138 |
| 17 | 1.2304489 | 50 | 1.6989700 | 83 | 1.9190781 |
| 18 | 1.2552725 | 51 | 1.7075702 | 84 | 1.9242793 |
| 19 | 1.2787536 | 52 | 1.7160033 | 85 | 1.9294189 |
| 20 | 1.3010300 | 53 | 1.7242759 | 86 | 1.9344984 |
| 21 | 1.3222193 | 54 | 1.7323938 | 87 | 1.9395192 |
| 22 | 1.3424227 | 55 | 1.7403627 | 88 | 1.9444827 |
| 23 | 1.3617278 | 56 | 1.7481880 | 89 | 1.9493900 |
| 24 | 1.3802112 | 57 | 1.7558748 | 90 | 1.9542425 |
| 25 | 1.3979400 | 58 | 1.7634280 | 91 | 1.9590414 |
| 26 | 1.4149733 | 59 | 1.7708520 | 92 | 1.9637878 |
| 27 | 1.4313638 | 60 | 1.7781512 | 93 | 1.9684829 |
| 28 | 1.4471580 | 61 | 1.7853298 | 94 | 1.9731279 |
| 29 | 1.4623980 | 62 | 1.7923917 | 95 | 1.9777236 |
| 30 | 1.4771212 | 63 | 1.7993405 | 96 | 1.9822712 |
| 31 | 1.4913617 | 64 | 1.8061800 | 97 | 1.9867717 |
| 32 | 1.5051500 | 65 | 1.8129134 | 98 | 1.9912261 |
| 33 | 1.5185139 | 66 | 1.8195439 | 99 | 1.9956352 |
| 34 | 1.5314789 | 67 | 1.8260748 | 100 | 2.0000000 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 101 | 2.0043214 | 134 | 2.1271048 | 167 | 2.2227165 |
| 102 | 2.0086002 | 135 | 2.1303338 | 168 | 2.2253093 |
| 103 | 2.0128372 | 136 | 2.1335389 | 169 | 2.2278867 |
| 104 | 2.0170333 | 137 | 2.1367206 | 170 | 2.2304489 |
| 105 | 2.0211893 | 138 | 2.1398791 | 171 | 2.2329961 |
| 106 | 2.0253059 | 139 | 2.1430148 | 172 | 2.2355284 |
| 107 | 2.0293838 | 140 | 2.1461280 | 173 | 2.2380461 |
| 108 | 2.0334238 | 141 | 2.1492191 | 174 | 2.2405492 |
| 109 | 2.0374265 | 142 | 2.1522883 | 175 | 2.2430380 |
| 110 | 2.0413927 | 143 | 2.1553360 | 176 | 2.2455127 |
| 111 | 2.0453230 | 144 | 2.1583625 | 177 | 2.2479733 |
| 112 | 2.0492180 | 145 | 2.1613680 | 178 | 2.2504200 |
| 113 | 2.0530784 | 146 | 2.1643529 | 179 | 2.2528530 |
| 114 | 2.0569049 | 147 | 2.1673173 | 180 | 2.2552725 |
| 115 | 2.0606978 | 148 | 2.1702617 | 181 | 2.2576786 |
| 116 | 2.0644580 | 149 | 2.1731863 | 182 | 2.2600714 |
| 117 | 2.0681859 | 150 | 2.1760913 | 183 | 2.2624511 |
| 118 | 2.0718820 | 151 | 2.1789769 | 184 | 2.2648178 |
| 119 | 2.0755470 | 152 | 2.1818436 | 185 | 2.2671717 |
| 120 | 2.0791812 | 153 | 2.1846914 | 186 | 2.2695129 |
| 121 | 2.0827854 | 154 | 2.1875207 | 187 | 2.2718416 |
| 122 | 2.0863598 | 155 | 2.1903317 | 188 | 2.2741578 |
| 123 | 2.0899051 | 156 | 2.1931246 | 189 | 2.2764618 |
| 124 | 2.0934217 | 157 | 2.1958996 | 190 | 2.2787536 |
| 125 | 2.0969100 | 158 | 2.1986571 | 191 | 2.2810334 |
| 126 | 2.1003705 | 159 | 2.2013972 | 192 | 2.2833012 |
| 127 | 2.1038037 | 160 | 2.2041200 | 193 | 2.2855573 |
| 128 | 2.1072100 | 161 | 2.2068259 | 194 | 2.2878017 |
| 129 | 2.1105897 | 162 | 2.2095150 | 195 | 2.2900346 |
| 130 | 2.1139433 | 163 | 2.2121876 | 196 | 2.2922561 |
| 131 | 2.1172713 | 164 | 2.2148438 | 197 | 2.2944662 |
| 132 | 2.1205739 | 165 | 2.2174839 | 198 | 2.2966652 |
| 133 | 2.1238516 | 166 | 2.2201081 | 199 | 2.2988531 |
| 134 | 2.1271048 | 167 | 2.2227165 | 200 | 2.3010300 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 201 | 2.3031961 | 234 | 2.3692159 | 267 | 2.4265113 |
| 202 | 2.3053514 | 235 | 2.3710679 | 268 | 2.4281348 |
| 203 | 2.3074960 | 236 | 2.3729120 | 269 | 2.4297523 |
| 204 | 2.3096302 | 237 | 2.3747483 | 270 | 2.4313638 |
| 205 | 2.3117539 | 238 | 2.3765770 | 271 | 2.4329693 |
| 206 | 2.3138672 | 239 | 2.3783979 | 272 | 2.4345689 |
| 207 | 2.3159703 | 240 | 2.3802112 | 273 | 2.4361626 |
| 208 | 2.3180633 | 241 | 2.3820170 | 274 | 2.4377506 |
| 209 | 2.3201463 | 242 | 2.3838154 | 275 | 2.4393327 |
| 210 | 2.3222193 | 243 | 2.3856063 | 276 | 2.4409091 |
| 211 | 2.3242825 | 244 | 2.3873898 | 277 | 2.4424798 |
| 212 | 2.3263359 | 245 | 2.3891661 | 278 | 2.4440448 |
| 213 | 2.3283796 | 246 | 2.3909351 | 279 | 2.4456042 |
| 214 | 2.3304138 | 247 | 2.3926969 | 280 | 2.4471580 |
| 215 | 2.3324385 | 248 | 2.3944517 | 281 | 2.4487063 |
| 216 | 2.3344537 | 249 | 2.3961993 | 282 | 2.4502491 |
| 217 | 2.3364597 | 250 | 2.3979400 | 283 | 2.4517864 |
| 218 | 2.3384565 | 251 | 2.3996737 | 284 | 2.4533183 |
| 219 | 2.3404441 | 252 | 2.4014005 | 285 | 2.4548449 |
| 220 | 2.3424227 | 253 | 2.4031205 | 286 | 2.4563660 |
| 221 | 2.3443923 | 254 | 2.4048337 | 287 | 2.4578819 |
| 222 | 2.3463530 | 255 | 2.4065402 | 288 | 2.4593925 |
| 223 | 2.3483049 | 256 | 2.4082400 | 289 | 2.4608978 |
| 224 | 2.3502480 | 257 | 2.4099331 | 290 | 2.4623980 |
| 225 | 2.3521825 | 258 | 2.4116197 | 291 | 2.4638930 |
| 226 | 2.3541084 | 259 | 2.4132998 | 292 | 2.4653828 |
| 227 | 2.3560259 | 260 | 2.4149733 | 293 | 2.4668676 |
| 228 | 2.3579348 | 261 | 2.4166405 | 294 | 2.4683473 |
| 229 | 2.3598355 | 262 | 2.4183013 | 295 | 2.4698220 |
| 230 | 2.3617278 | 263 | 2.4199557 | 296 | 2.4712917 |
| 231 | 2.3636120 | 264 | 2.4216039 | 297 | 2.4727564 |
| 232 | 2.3654880 | 265 | 2.4232459 | 298 | 2.4742163 |
| 233 | 2.3673559 | 266 | 2.4248816 | 299 | 2.4756712 |
| 234 | 2.3692159 | 267 | 2.4265113 | 300 | 2.4771213 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 301 | 2.4785665 | 334 | 2.5237465 | 367 | 2.5646661 |
| 302 | 2.4800069 | 335 | 2.5250448 | 368 | 2.5658478 |
| 303 | 2.4814426 | 336 | 2.5263393 | 369 | 2.5670264 |
| 304 | 2.4828736 | 337 | 2.5276299 | 370 | 2.5682017 |
| 305 | 2.4842998 | 338 | 2.5289167 | 371 | 2.5693739 |
| 306 | 2.4857214 | 339 | 2.5301997 | 372 | 2.5705429 |
| 307 | 2.4871384 | 340 | 2.5314789 | 373 | 2.5717088 |
| 308 | 2.4885507 | 341 | 2.5327544 | 374 | 2.5728716 |
| 309 | 2.4899585 | 342 | 2.5340261 | 375 | 2.5740313 |
| 310 | 2.4913617 | 343 | 2.5352941 | 376 | 2.5751878 |
| 311 | 2.4927604 | 344 | 2.5365584 | 377 | 2.5763413 |
| 312 | 2.4941546 | 345 | 2.5378191 | 378 | 2.5774918 |
| 313 | 2.4955443 | 346 | 2.5390761 | 379 | 2.5786392 |
| 314 | 2.4969296 | 347 | 2.5403295 | 380 | 2.5797836 |
| 315 | 2.4983106 | 348 | 2.5415792 | 381 | 2.5809250 |
| 316 | 2.4996871 | 349 | 2.5428254 | 382 | 2.5820634 |
| 317 | 2.5010593 | 350 | 2.5440680 | 383 | 2.5831988 |
| 318 | 2.5024271 | 351 | 2.5453071 | 384 | 2.5843312 |
| 319 | 2.5037907 | 352 | 2.5465427 | 385 | 2.5854607 |
| 320 | 2.5051500 | 353 | 2.5477747 | 386 | 2.5865873 |
| 321 | 2.5065050 | 354 | 2.5490033 | 387 | 2.5877110 |
| 322 | 2.5078559 | 355 | 2.5502284 | 388 | 2.5888317 |
| 323 | 2.5092025 | 356 | 2.5514500 | 389 | 2.5899496 |
| 324 | 2.5105450 | 357 | 2.5526682 | 390 | 2.5910646 |
| 325 | 2.5118834 | 358 | 2.5538830 | 391 | 2.5921768 |
| 326 | 2.5132176 | 359 | 2.5550944 | 392 | 2.5932861 |
| 327 | 2.5145477 | 360 | 2.5563025 | 393 | 2.5943925 |
| 328 | 2.5158738 | 361 | 2.5575072 | 394 | 2.5954962 |
| 329 | 2.5171959 | 362 | 2.5587086 | 395 | 2.5965971 |
| 330 | 2.5185139 | 363 | 2.5599066 | 396 | 2.5976952 |
| 331 | 2.5198280 | 364 | 2.5611014 | 397 | 2.5987905 |
| 332 | 2.5211381 | 365 | 2.5622929 | 398 | 2.5998831 |
| 333 | 2.5224442 | 366 | 2.5634811 | 399 | 2.6009729 |
| 334 | 2.5237465 | 367 | 2.5646661 | 400 | 2.6020600 |

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| N. | Logarith. | N. | Logarith. | N. | Logarith. |
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| 401 | 2.6031444 | 434 | 2.6374897 | 467 | 2.6693169 |
| 402 | 2.6042261 | 435 | 2.6384893 | 468 | 2.6702459 |
| 403 | 2.6053050 | 436 | 2.6394865 | 469 | 2.6711728 |
| 404 | 2.6063814 | 437 | 2.6404814 | 470 | 2.6720979 |
| 405 | 2.6074550 | 438 | 2.6414741 | 471 | 2.6730209 |
| 406 | 2.6085260 | 439 | 2.6424645 | 472 | 2.6739420 |
| 407 | 2.6095944 | 440 | 2.6434527 | 473 | 2.6748611 |
| 408 | 2.6106602 | 441 | 2.6444386 | 474 | 2.6757783 |
| 409 | 2.6117233 | 442 | 2.6454223 | 475 | 2.6766936 |
| 410 | 2.6127839 | 443 | 2.6464037 | 476 | 2.6776069 |
| 411 | 2.6138418 | 444 | 2.6473830 | 477 | 2.6785184 |
| 412 | 2.6148972 | 445 | 2.6483600 | 478 | 2.6794279 |
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| 416 | 2.6190933 | 449 | 2.6522463 | 482 | 2.6830470 |
| 417 | 2.6201361 | 450 | 2.6532125 | 483 | 2.6839471 |
| 418 | 2.6211763 | 451 | 2.6541765 | 484 | 2.6848454 |
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| 422 | 2.6253124 | 455 | 2.6580114 | 488 | 2.6884198 |
| 423 | 2.6263404 | 456 | 2.6589648 | 489 | 2.6893089 |
| 424 | 2.6273659 | 457 | 2.6599162 | 490 | 2.6901961 |
| 425 | 2.6283889 | 458 | 2.6608655 | 491 | 2.6910815 |
| 426 | 2.6294096 | 459 | 2.6618127 | 492 | 2.6919651 |
| 427 | 2.6304279 | 460 | 2.6627578 | 493 | 2.6928469 |
| 428 | 2.6314438 | 461 | 2.6637009 | 494 | 2.6937269 |
| 429 | 2.6324573 | 462 | 2.6646420 | 495 | 2.6946052 |
| 430 | 2.6334685 | 463 | 2.6655810 | 496 | 2.6954817 |
| 431 | 2.6344773 | 464 | 2.6665180 | 497 | 2.6963564 |
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| 505 | 2.7032914 | 538 | 2.7307823 | 571 | 2.7566361 |
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| 507 | 2.7050080 | 540 | 2.7323938 | 573 | 2.7581546 |
| 508 | 2.7058637 | 541 | 2.7331973 | 574 | 2.7589119 |
| 509 | 2.7067178 | 542 | 2.7339993 | 575 | 2.7596678 |
| 510 | 2.7075702 | 543 | 2.7347998 | 576 | 2.7604225 |
| 511 | 2.7084209 | 544 | 2.7355989 | 577 | 2.7611758 |
| 512 | 2.7092700 | 545 | 2.7363965 | 578 | 2.7619278 |
| 513 | 2.7101174 | 546 | 2.7371926 | 579 | 2.7626786 |
| 514 | 2.7109631 | 547 | 2.7379873 | 580 | 2.7634280 |
| 515 | 2.7118072 | 548 | 2.7387806 | 581 | 2.7641761 |
| 516 | 2.7126497 | 549 | 2.7395723 | 582 | 2.7649230 |
| 517 | 2.7134905 | 550 | 2.7403627 | 583 | 2.7656686 |
| 518 | 2.7143298 | 551 | 2.7411516 | 584 | 2.7664128 |
| 519 | 2.7151674 | 552 | 2.7419391 | 585 | 2.7671559 |
| 520 | 2.7160033 | 553 | 2.7427251 | 586 | 2.7678976 |
| 521 | 2.7168377 | 554 | 2.7435098 | 587 | 2.7686381 |
| 522 | 2.7176705 | 555 | 2.7442930 | 588 | 2.7693773 |
| 523 | 2.7185017 | 556 | 2.7450748 | 589 | 2.7701153 |
| 524 | 2.7193313 | 557 | 2.7458552 | 590 | 2.7708520 |
| 525 | 2.7201593 | 558 | 2.7466342 | 591 | 2.7715875 |
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| 527 | 2.7218106 | 560 | 2.7481880 | 593 | 2.7730547 |
| 528 | 2.7226339 | 561 | 2.7489628 | 594 | 2.7737864 |
| 529 | 2.7234557 | 562 | 2.7497363 | 595 | 2.7745170 |
| 530 | 2.7242759 | 563 | 2.7505084 | 596 | 2.7752463 |
| 531 | 2.7250945 | 564 | 2.7512791 | 597 | 2.7759743 |
| 532 | 2.7259116 | 565 | 2.7520484 | 598 | 2.7767012 |
| 533 | 2.7267272 | 566 | 2.7528164 | 599 | 2.7774268 |
| 534 | 2.7275413 | 567 | 2.7535831 | 600 | 2.7781512 |

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| 618 | 2.7909885 |
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| 631 | 2.8000294 |
| 632 | 2.8007171 |
| 633 | 2.8014037 |
| 634 | 2.8020893 |

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| 635 | 2.8027737 |
| 636 | 2.8034571 |
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| 639 | 2.8055009 |
| 640 | 2.8061800 |
| 641 | 2.8068580 |
| 642 | 2.8075350 |
| 643 | 2.8082110 |
| 644 | 2.8088859 |
| 645 | 2.8095597 |
| 646 | 2.8102325 |
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| 648 | 2.8115750 |
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| 660 | 2.8195439 |
| 661 | 2.8202015 |
| 662 | 2.8208580 |
| 663 | 2.8215135 |
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| 667 | 2.8241258 |

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| 667 | 2.8241258 |
| 668 | 2.8247765 |
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| 671 | 2.8267225 |
| 672 | 2.8273693 |
| 673 | 2.8280151 |
| 674 | 2.8286599 |
| 675 | 2.8293038 |
| 676 | 2.8299467 |
| 677 | 2.8305887 |
| 678 | 2.8312297 |
| 679 | 2.8318698 |
| 680 | 2.8325089 |
| 681 | 2.8331471 |
| 682 | 2.8337844 |
| 683 | 2.8344207 |
| 684 | 2.8350561 |
| 685 | 2.8356906 |
| 686 | 2.8363241 |
| 687 | 2.8369567 |
| 688 | 2.8375884 |
| 689 | 2.8382192 |
| 690 | 2.8388491 |
| 691 | 2.8394780 |
| 692 | 2.8401061 |
| 693 | 2.8407332 |
| 694 | 2.8413595 |
| 695 | 2.8419848 |
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| 697 | 2.8432328 |
| 698 | 2.8438554 |
| 699 | 2.8444772 |
| 700 | 2.8450980 |

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| 701 | 2.8457180 | 734 | 2.8656961 | 767 | 2.8847954 |
| 702 | 2.8463371 | 735 | 2.8662873 | 768 | 2.8853612 |
| 703 | 2.8469553 | 736 | 2.8668778 | 769 | 2.8859263 |
| 704 | 2.8475727 | 737 | 2.8674675 | 770 | 2.8864907 |
| 705 | 2.8481891 | 738 | 2.8680564 | 771 | 2.8870544 |
| 706 | 2.8488047 | 739 | 2.8686444 | 772 | 2.8876173 |
| 707 | 2.8494194 | 740 | 2.8692317 | 773 | 2.8881795 |
| 708 | 2.8500333 | 741 | 2.8698182 | 774 | 2.8887410 |
| 709 | 2.8506462 | 742 | 2.8704039 | 775 | 2.8893017 |
| 710 | 2.8512583 | 743 | 2.8709888 | 776 | 2.8898617 |
| 711 | 2.8518696 | 744 | 2.8715729 | 777 | 2.8904210 |
| 712 | 2.8524800 | 745 | 2.8721563 | 778 | 2.8909796 |
| 713 | 2.8530895 | 746 | 2.8727388 | 779 | 2.8915375 |
| 714 | 2.8536982 | 747 | 2.8733206 | 780 | 2.8920946 |
| 715 | 2.8543060 | 748 | 2.8739016 | 781 | 2.8926510 |
| 716 | 2.8549130 | 749 | 2.8744818 | 782 | 2.8932068 |
| 717 | 2.8555192 | 750 | 2.8750613 | 783 | 2.8937618 |
| 718 | 2.8561244 | 751 | 2.8756399 | 784 | 2.8943161 |
| 719 | 2.8567289 | 752 | 2.8762178 | 785 | 2.8948696 |
| 720 | 2.8573325 | 753 | 2.8767950 | 786 | 2.8954225 |
| 721 | 2.8579353 | 754 | 2.8773713 | 787 | 2.8959747 |
| 722 | 2.8585372 | 755 | 2.8779469 | 788 | 2.8965262 |
| 723 | 2.8591383 | 756 | 2.8785218 | 789 | 2.8970770 |
| 724 | 2.8597386 | 757 | 2.8790959 | 790 | 2.8976271 |
| 725 | 2.8603380 | 758 | 2.8796692 | 791 | 2.8981765 |
| 726 | 2.8609366 | 759 | 2.8802418 | 792 | 2.8987252 |
| 727 | 2.8615344 | 760 | 2.8808136 | 793 | 2.8992732 |
| 728 | 2.8621314 | 761 | 2.8813847 | 794 | 2.8998205 |
| 729 | 2.8627275 | 762 | 2.8819550 | 795 | 2.9003671 |
| 730 | 2.8633229 | 763 | 2.8825245 | 796 | 2.9009131 |
| 731 | 2.8639174 | 764 | 2.8830934 | 797 | 2.9014583 |
| 732 | 2.8645111 | 765 | 2.8836614 | 798 | 2.9020029 |
| 733 | 2.8651040 | 766 | 2.8842288 | 799 | 2.9025468 |
| 734 | 2.8656961 | 767 | 2.8847954 | 800 | 2.9030900 |

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| 802 | 2.9041744 | 835 | 2.9216865 | 868 | 2.9385197 |
| 803 | 2.9047155 | 836 | 2.9222063 | 869 | 2.9390198 |
| 804 | 2.9052560 | 837 | 2.9227255 | 870 | 2.9395192 |
| 805 | 2.9057959 | 838 | 2.9232440 | 871 | 2.9400182 |
| 806 | 2.9063350 | 839 | 2.9237620 | 872 | 2.9405165 |
| 807 | 2.9068735 | 840 | 2.9242793 | 873 | 2.9410142 |
| 808 | 2.9074114 | 841 | 2.9247960 | 874 | 2.9415114 |
| 809 | 2.9079485 | 842 | 2.9253121 | 875 | 2.9420081 |
| 810 | 2.9084850 | 843 | 2.9258276 | 876 | 2.9425041 |
| 811 | 2.9090208 | 844 | 2.9263424 | 877 | 2.9429996 |
| 812 | 2.9095560 | 845 | 2.9268567 | 878 | 2.9434945 |
| 813 | 2.9100905 | 846 | 2.9273704 | 879 | 2.9439889 |
| 814 | 2.9106244 | 847 | 2.9278834 | 880 | 2.9444827 |
| 815 | 2.9111576 | 848 | 2.9283959 | 881 | 2.9449759 |
| 816 | 2.9116902 | 849 | 2.9289077 | 882 | 2.9454686 |
| 817 | 2.9122221 | 850 | 2.9294189 | 883 | 2.9459607 |
| 818 | 2.9127533 | 851 | 2.9299296 | 884 | 2.9464523 |
| 819 | 2.9132839 | 852 | 2.9304396 | 885 | 2.9469433 |
| 820 | 2.9138139 | 853 | 2.9309490 | 886 | 2.9474337 |
| 821 | 2.9143432 | 854 | 2.9314579 | 887 | 2.9479236 |
| 822 | 2.9148718 | 855 | 2.9319661 | 888 | 2.9484130 |
| 823 | 2.9153998 | 856 | 2.9324738 | 889 | 2.9489018 |
| 824 | 2.9159272 | 857 | 2.9329808 | 890 | 2.9493900 |
| 825 | 2.9164539 | 858 | 2.9334873 | 891 | 2.9498777 |
| 826 | 2.9169800 | 859 | 2.9339932 | 892 | 2.9503648 |
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| 830 | 2.9190781 | 863 | 2.9360108 | 896 | 2.9523080 |
| 831 | 2.9196010 | 864 | 2.9365137 | 897 | 2.9527924 |
| 832 | 2.9201233 | 865 | 2.9370161 | 898 | 2.9532763 |
| 833 | 2.9206450 | 866 | 2.9375179 | 899 | 2.9537597 |
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| 903 | 2.9556877 | 936 | 2.9712758 | 969 | 2.9863238 |
| 904 | 2.9561684 | 937 | 2.9717396 | 970 | 2.9867717 |
| 905 | 2.9566486 | 938 | 2.9722028 | 971 | 2.9872192 |
| 906 | 2.9571282 | 939 | 2.9726656 | 972 | 2.9876663 |
| 907 | 2.9576073 | 940 | 2.9731279 | 973 | 2.9881128 |
| 908 | 2.9580858 | 941 | 2.9735896 | 974 | 2.9885590 |
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| 910 | 2.9590414 | 943 | 2.9745117 | 976 | 2.9894498 |
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| 916 | 2.9618955 | 949 | 2.9772662 | 982 | 2.9921115 |
| 917 | 2.9623693 | 950 | 2.9777236 | 983 | 2.9925535 |
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| 919 | 2.9633155 | 952 | 2.9786369 | 985 | 2.9934362 |
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| 921 | 2.9642596 | 954 | 2.9795484 | 987 | 2.9943172 |
| 922 | 2.9647309 | 955 | 2.9800034 | 988 | 2.9947569 |
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| 927 | 2.9670797 | 960 | 2.9822712 | 993 | 2.9969492 |
| 928 | 2.9675480 | 961 | 2.9827234 | 994 | 2.9973864 |
| 929 | 2.9680157 | 962 | 2.9831751 | 995 | 2.9978231 |
| 930 | 2.9684829 | 963 | 2.9836263 | 996 | 2.9982593 |
| 931 | 2.9689497 | 964 | 2.9840770 | 997 | 2.9986952 |
| 932 | 2.9694159 | 965 | 2.9845273 | 998 | 2.9991305 |
| 933 | 2.9698816 | 966 | 2.9849771 | 999 | 2.9995655 |
| 934 | 2.9703469 | 967 | 2.9854265 | 1000 | 3.0000000 |

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| 1003 | 3.0013009 | 1036 | 3.0153598 | 1069 | 3.0289777 |
| 1004 | 3.0017337 | 1037 | 3.0157788 | 1070 | 3.0293838 |
| 1005 | 3.0021661 | 1038 | 3.0161974 | 1071 | 3.0297895 |
| 1006 | 3.0025980 | 1039 | 3.0166155 | 1072 | 3.0301948 |
| 1007 | 3.0030295 | 1040 | 3.0170333 | 1073 | 3.0305997 |
| 1008 | 3.0034605 | 1041 | 3.0174507 | 1074 | 3.0310043 |
| 1009 | 3.0038912 | 1042 | 3.0178677 | 1075 | 3.0314085 |
| 1010 | 3.0043214 | 1043 | 3.0182843 | 1076 | 3.0318123 |
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| 1013 | 3.0056094 | 1046 | 3.0195317 | 1079 | 3.0330214 |
| 1014 | 3.0060380 | 1047 | 3.0199467 | 1080 | 3.0334238 |
| 1015 | 3.0064660 | 1048 | 3.0203613 | 1081 | 3.0338257 |
| 1016 | 3.0068937 | 1049 | 3.0207755 | 1082 | 3.0342273 |
| 1017 | 3.0073209 | 1050 | 3.0211893 | 1083 | 3.0346285 |
| 1018 | 3.0077478 | 1051 | 3.0216027 | 1084 | 3.0350293 |
| 1019 | 3.0081742 | 1052 | 3.0220157 | 1085 | 3.0354297 |
| 1020 | 3.0086002 | 1053 | 3.0224284 | 1086 | 3.0358298 |
| 1021 | 3.0090257 | 1054 | 3.0228406 | 1087 | 3.0362295 |
| 1022 | 3.0094509 | 1055 | 3.0232525 | 1088 | 3.0366289 |
| 1023 | 3.0098756 | 1056 | 3.0236639 | 1089 | 3.0370279 |
| 1024 | 3.0103000 | 1057 | 3.0240750 | 1090 | 3.0374265 |
| 1025 | 3.0107239 | 1058 | 3.0244857 | 1091 | 3.0378247 |
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| 1027 | 3.0115704 | 1060 | 3.0253059 | 1093 | 3.0386202 |
| 1028 | 3.0119931 | 1061 | 3.0257154 | 1094 | 3.0390173 |
| 1029 | 3.0124154 | 1062 | 3.0261245 | 1095 | 3.0394141 |
| 1030 | 3.0128372 | 1063 | 3.0265333 | 1096 | 3.0398106 |
| 1031 | 3.0132587 | 1064 | 3.0269416 | 1097 | 3.0402066 |
| 1032 | 3.0136797 | 1065 | 3.0273496 | 1098 | 3.0406023 |
| 1033 | 3.0141003 | 1066 | 3.0277572 | 1099 | 3.0409977 |
| 1034 | 3.0145205 | 1067 | 3.0281644 | 1100 | 3.0413927 |

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| 1101 | 3.0417873 | 1134 | 3.0546131 | 1167 | 3.0670709 |
| 1102 | 3.0421816 | 1135 | 3.0549959 | 1168 | 3.0674428 |
| 1103 | 3.0425755 | 1136 | 3.0553783 | 1169 | 3.0678145 |
| 1104 | 3.0429691 | 1137 | 3.0557605 | 1170 | 3.0681859 |
| 1105 | 3.0433623 | 1138 | 3.0561423 | 1171 | 3.0685569 |
| 1106 | 3.0437551 | 1139 | 3.0565237 | 1172 | 3.0689276 |
| 1107 | 3.0441476 | 1140 | 3.0569048 | 1173 | 3.0692980 |
| 1108 | 3.0445398 | 1141 | 3.0572856 | 1174 | 3.0696681 |
| 1109 | 3.0449315 | 1142 | 3.0576661 | 1175 | 3.0700379 |
| 1110 | 3.0453230 | 1143 | 3.0580462 | 1176 | 3.0704073 |
| 1111 | 3.0457141 | 1144 | 3.0584260 | 1177 | 3.0707765 |
| 1112 | 3.0461048 | 1145 | 3.0588055 | 1178 | 3.0711453 |
| 1113 | 3.0464952 | 1146 | 3.0591846 | 1179 | 3.0715138 |
| 1114 | 3.0468852 | 1147 | 3.0595634 | 1180 | 3.0718820 |
| 1115 | 3.0472749 | 1148 | 3.0599419 | 1181 | 3.0722499 |
| 1116 | 3.0476642 | 1149 | 3.0603200 | 1182 | 3.0726175 |
| 1117 | 3.0480532 | 1150 | 3.0606978 | 1183 | 3.0729847 |
| 1118 | 3.0484418 | 1151 | 3.0610753 | 1184 | 3.0733517 |
| 1119 | 3.0488301 | 1152 | 3.0614525 | 1185 | 3.0737183 |
| 1120 | 3.0492180 | 1153 | 3.0618293 | 1186 | 3.0740847 |
| 1121 | 3.0496056 | 1154 | 3.0622058 | 1187 | 3.0744507 |
| 1122 | 3.0499929 | 1155 | 3.0625820 | 1188 | 3.0748164 |
| 1123 | 3.0503798 | 1156 | 3.0629578 | 1189 | 3.0751818 |
| 1124 | 3.0507663 | 1157 | 3.0633334 | 1190 | 3.0755470 |
| 1125 | 3.0511525 | 1158 | 3.0637086 | 1191 | 3.0759118 |
| 1126 | 3.0515384 | 1159 | 3.0640834 | 1192 | 3.0762763 |
| 1127 | 3.0519239 | 1160 | 3.0644580 | 1193 | 3.0766404 |
| 1128 | 3.0523091 | 1161 | 3.0648322 | 1194 | 3.0770043 |
| 1129 | 3.0526939 | 1162 | 3.0652061 | 1195 | 3.0773679 |
| 1130 | 3.0530784 | 1163 | 3.0655797 | 1196 | 3.0777312 |
| 1131 | 3.0534626 | 1164 | 3.0659530 | 1197 | 3.0780941 |
| 1132 | 3.0538464 | 1165 | 3.0663259 | 1198 | 3.0784568 |
| 1133 | 3.0542299 | 1166 | 3.0666986 | 1199 | 3.0788192 |
| 1134 | 3.0546131 | 1167 | 3.0670709 | 1200 | 3.0791812 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1201 | 3.0795430 | 1234 | 3.0913152 | 1267 | 3.1027766 |
| 1202 | 3.0799045 | 1235 | 3.0916670 | 1268 | 3.1031192 |
| 1203 | 3.0802656 | 1236 | 3.0920185 | 1269 | 3.1034616 |
| 1204 | 3.0806265 | 1237 | 3.0923697 | 1270 | 3.1038037 |
| 1205 | 3.0809870 | 1238 | 3.0927206 | 1271 | 3.1041456 |
| 1206 | 3.0813473 | 1239 | 3.0930713 | 1272 | 3.1044871 |
| 1207 | 3.0817073 | 1240 | 3.0934217 | 1273 | 3.1048284 |
| 1208 | 3.0820669 | 1241 | 3.0937718 | 1274 | 3.1051694 |
| 1209 | 3.0824263 | 1242 | 3.0941216 | 1275 | 3.1055102 |
| 1210 | 3.0827854 | 1243 | 3.0944711 | 1276 | 3.1058507 |
| 1211 | 3.0831441 | 1244 | 3.0948204 | 1277 | 3.1061909 |
| 1212 | 3.0835026 | 1245 | 3.0951693 | 1278 | 3.1065309 |
| 1213 | 3.0838608 | 1246 | 3.0955180 | 1279 | 3.1068705 |
| 1214 | 3.0842187 | 1247 | 3.0958664 | 1280 | 3.1072100 |
| 1215 | 3.0845763 | 1248 | 3.0962146 | 1281 | 3.1075491 |
| 1216 | 3.0849336 | 1249 | 3.0965624 | 1282 | 3.1078880 |
| 1217 | 3.0852906 | 1250 | 3.0969100 | 1283 | 3.1082266 |
| 1218 | 3.0856473 | 1251 | 3.0972573 | 1284 | 3.1085650 |
| 1219 | 3.0860037 | 1252 | 3.0976043 | 1285 | 3.1089031 |
| 1220 | 3.0863598 | 1253 | 3.0979511 | 1286 | 3.1092410 |
| 1221 | 3.0867157 | 1254 | 3.0982975 | 1287 | 3.1095785 |
| 1222 | 3.0870712 | 1255 | 3.0986437 | 1288 | 3.1099159 |
| 1223 | 3.0874264 | 1256 | 3.0989896 | 1289 | 3.1102529 |
| 1224 | 3.0877814 | 1257 | 3.0993353 | 1290 | 3.1105897 |
| 1225 | 3.0881361 | 1258 | 3.0996806 | 1291 | 3.1109262 |
| 1226 | 3.0884905 | 1259 | 3.1000257 | 1292 | 3.1112625 |
| 1227 | 3.0888446 | 1260 | 3.1003705 | 1293 | 3.1115985 |
| 1228 | 3.0891984 | 1261 | 3.1007151 | 1294 | 3.1119343 |
| 1229 | 3.0895519 | 1262 | 3.1010594 | 1295 | 3.1122698 |
| 1230 | 3.0899051 | 1263 | 3.1014033 | 1296 | 3.1126050 |
| 1231 | 3.0902580 | 1264 | 3.1017471 | 1297 | 3.1129400 |
| 1232 | 3.0906107 | 1265 | 3.1020905 | 1298 | 3.1132746 |
| 1233 | 3.0909631 | 1266 | 3.1024337 | 1299 | 3.1136091 |
| 1234 | 3.0913152 | 1267 | 3.1027766 | 1300 | 3.1139433 |

| N. | Logarith. |
|---|---|
| 1301 | 3.1142773 |
| 1302 | 3.1146110 |
| 1303 | 3.1149444 |
| 1304 | 3.1152776 |
| 1305 | 3.1156105 |
| 1306 | 3.1159432 |
| 1307 | 3.1162756 |
| 1308 | 3.1166077 |
| 1309 | 3.1169396 |
| 1310 | 3.1172713 |
| 1311 | 3.1176027 |
| 1312 | 3.1179338 |
| 1313 | 3.1182647 |
| 1314 | 3.1185954 |
| 1315 | 3.1189257 |
| 1316 | 3.1192559 |
| 1317 | 3.1195858 |
| 1318 | 3.1199154 |
| 1319 | 3.1202448 |
| 1320 | 3.1205739 |
| 1321 | 3.1209023 |
| 1322 | 3.1212315 |
| 1323 | 3.1215598 |
| 1324 | 3.1218880 |
| 1325 | 3.1222159 |
| 1326 | 3.1225435 |
| 1327 | 3.1228709 |
| 1328 | 3.1231981 |
| 1329 | 3.1235250 |
| 1330 | 3.1238516 |
| 1331 | 3.1241781 |
| 1332 | 3.1245042 |
| 1333 | 3.1248301 |
| 1334 | 3.1251558 |

| N. | Logarith. |
|---|---|
| 1334 | 3.1251558 |
| 1335 | 3.1254813 |
| 1336 | 3.1258065 |
| 1337 | 3.1261314 |
| 1338 | 3.1264561 |
| 1339 | 3.1267806 |
| 1340 | 3.1271048 |
| 1341 | 3.1274288 |
| 1342 | 3.1277525 |
| 1343 | 3.1280760 |
| 1344 | 3.1283993 |
| 1345 | 3.1287223 |
| 1346 | 3.1290451 |
| 1347 | 3.1293676 |
| 1348 | 3.1296899 |
| 1349 | 3.1300119 |
| 1350 | 3.1303338 |
| 1351 | 3.1306553 |
| 1352 | 3.1309767 |
| 1353 | 3.1312978 |
| 1354 | 3.1316187 |
| 1355 | 3.1319393 |
| 1356 | 3.1322597 |
| 1357 | 3.1325798 |
| 1358 | 3.1328998 |
| 1359 | 3.1332195 |
| 1360 | 3.1335389 |
| 1361 | 3.1338581 |
| 1362 | 3.1341771 |
| 1363 | 3.1344959 |
| 1364 | 3.1348144 |
| 1365 | 3.1351326 |
| 1366 | 3.1354507 |
| 1367 | 3.1357685 |

| N. | Logarith. |
|---|---|
| 1367 | 3.1357685 |
| 1368 | 3.1360861 |
| 1369 | 3.1364034 |
| 1370 | 3.1367206 |
| 1371 | 3.1370375 |
| 1372 | 3.1373541 |
| 1373 | 3.1376705 |
| 1374 | 3.1379867 |
| 1375 | 3.1383027 |
| 1376 | 3.1386184 |
| 1377 | 3.1389339 |
| 1378 | 3.1392492 |
| 1379 | 3.1395643 |
| 1380 | 3.1398791 |
| 1381 | 3.1401937 |
| 1382 | 3.1405080 |
| 1383 | 3.1408222 |
| 1384 | 3.1411361 |
| 1385 | 3.1414498 |
| 1386 | 3.1417632 |
| 1387 | 3.1420765 |
| 1388 | 3.1423895 |
| 1389 | 3.1427022 |
| 1390 | 3.1430148 |
| 1391 | 3.1433271 |
| 1392 | 3.1436392 |
| 1393 | 3.1439511 |
| 1394 | 3.1442628 |
| 1395 | 3.1445742 |
| 1396 | 3.1448854 |
| 1397 | 3.1451964 |
| 1398 | 3.1455072 |
| 1399 | 3.1458177 |
| 1400 | 3.1461280 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1401 | 3.1464381 | 1434 | 3.1565491 | 1467 | 3.1664301 |
| 1402 | 3.1467480 | 1435 | 3.1568519 | 1468 | 3.1667261 |
| 1403 | 3.1470577 | 1436 | 3.1571544 | 1469 | 3.1670218 |
| 1404 | 3.1473671 | 1437 | 3.1574568 | 1470 | 3.1673173 |
| 1405 | 3.1476763 | 1438 | 3.1577589 | 1471 | 3.1676127 |
| 1406 | 3.1479853 | 1439 | 3.1580608 | 1472 | 3.1679078 |
| 1407 | 3.1482941 | 1440 | 3.1583625 | 1473 | 3.1682027 |
| 1408 | 3.1486027 | 1441 | 3.1586640 | 1474 | 3.1684975 |
| 1409 | 3.1489110 | 1442 | 3.1589653 | 1475 | 3.1687920 |
| 1410 | 3.1492191 | 1443 | 3.1592663 | 1476 | 3.1690864 |
| 1411 | 3.1495270 | 1444 | 3.1595672 | 1477 | 3.1693805 |
| 1412 | 3.1498347 | 1445 | 3.1598678 | 1478 | 3.1696744 |
| 1413 | 3.1501422 | 1446 | 3.1601683 | 1479 | 3.1699682 |
| 1414 | 3.1504494 | 1447 | 3.1604685 | 1480 | 3.1702617 |
| 1415 | 3.1507564 | 1448 | 3.1607686 | 1481 | 3.1705551 |
| 1416 | 3.1510633 | 1449 | 3.1610684 | 1482 | 3.1708482 |
| 1417 | 3.1513698 | 1450 | 3.1613680 | 1483 | 3.1711412 |
| 1418 | 3.1516762 | 1451 | 3.1616674 | 1484 | 3.1714339 |
| 1419 | 3.1519824 | 1452 | 3.1619666 | 1485 | 3.1717265 |
| 1420 | 3.1522883 | 1453 | 3.1622656 | 1486 | 3.1720188 |
| 1421 | 3.1525941 | 1454 | 3.1625644 | 1487 | 3.1723110 |
| 1422 | 3.1528996 | 1455 | 3.1628630 | 1488 | 3.1726029 |
| 1423 | 3.1532049 | 1456 | 3.1631614 | 1489 | 3.1728947 |
| 1424 | 3.1535100 | 1457 | 3.1634596 | 1490 | 3.1731863 |
| 1425 | 3.1538149 | 1458 | 3.1637575 | 1491 | 3.1734776 |
| 1426 | 3.1541195 | 1459 | 3.1640553 | 1492 | 3.1737688 |
| 1427 | 3.1544240 | 1460 | 3.1643529 | 1493 | 3.1740598 |
| 1428 | 3.1547282 | 1461 | 3.1646502 | 1494 | 3.1743506 |
| 1429 | 3.1550322 | 1462 | 3.1649474 | 1495 | 3.1746412 |
| 1430 | 3.1553360 | 1463 | 3.1652443 | 1496 | 3.1749316 |
| 1431 | 3.1556396 | 1464 | 3.1655411 | 1497 | 3.1752218 |
| 1432 | 3.1559430 | 1465 | 3.1658376 | 1498 | 3.1755118 |
| 1433 | 3.1562462 | 1466 | 3.1661340 | 1499 | 3.1758016 |
| 1434 | 3.1565491 | 1467 | 3.1664301 | 1500 | 3.1760913 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1501 | 3.1763807 | 1534 | 3.1858254 | 1567 | 3.1950690 |
| 1502 | 3.1766699 | 1535 | 3.1861084 | 1568 | 3.1953461 |
| 1503 | 3.1769590 | 1536 | 3.1863912 | 1569 | 3.1956229 |
| 1504 | 3.1772478 | 1537 | 3.1866739 | 1570 | 3.1958997 |
| 1505 | 3.1775365 | 1538 | 3.1869563 | 1571 | 3.1961762 |
| 1506 | 3.1778250 | 1539 | 3.1872386 | 1572 | 3.1964525 |
| 1507 | 3.1781133 | 1540 | 3.1875207 | 1573 | 3.1967287 |
| 1508 | 3.1784013 | 1541 | 3.1878026 | 1574 | 3.1970047 |
| 1509 | 3.1786892 | 1542 | 3.1880844 | 1575 | 3.1972806 |
| 1510 | 3.1789769 | 1543 | 3.1883659 | 1576 | 3.1975562 |
| 1511 | 3.1792645 | 1544 | 3.1886473 | 1577 | 3.1978317 |
| 1512 | 3.1795518 | 1545 | 3.1889285 | 1578 | 3.1981070 |
| 1513 | 3.1798389 | 1546 | 3.1892095 | 1579 | 3.1983821 |
| 1514 | 3.1801259 | 1547 | 3.1894903 | 1580 | 3.1986571 |
| 1515 | 3.1804126 | 1548 | 3.1897710 | 1581 | 3.1989319 |
| 1516 | 3.1806992 | 1549 | 3.1900514 | 1582 | 3.1992065 |
| 1517 | 3.1809856 | 1550 | 3.1903317 | 1583 | 3.1994809 |
| 1518 | 3.1812718 | 1551 | 3.1906118 | 1584 | 3.1997552 |
| 1519 | 3.1815578 | 1552 | 3.1908917 | 1585 | 3.2000293 |
| 1520 | 3.1818436 | 1553 | 3.1911715 | 1586 | 3.2003032 |
| 1521 | 3.1821292 | 1554 | 3.1914510 | 1587 | 3.2005769 |
| 1522 | 3.1824146 | 1555 | 3.1917304 | 1588 | 3.2008505 |
| 1523 | 3.1826999 | 1556 | 3.1920096 | 1589 | 3.2011239 |
| 1524 | 3.1829850 | 1557 | 3.1922886 | 1590 | 3.2013971 |
| 1525 | 3.1832698 | 1558 | 3.1925674 | 1591 | 3.2016702 |
| 1526 | 3.1835545 | 1559 | 3.1928461 | 1592 | 3.2019431 |
| 1527 | 3.1838390 | 1560 | 3.1931246 | 1593 | 3.2022158 |
| 1528 | 3.1841234 | 1561 | 3.1934029 | 1594 | 3.2024883 |
| 1529 | 3.1844075 | 1562 | 3.1936810 | 1595 | 3.2027607 |
| 1530 | 3.1846914 | 1563 | 3.1939590 | 1596 | 3.2030329 |
| 1531 | 3.1849752 | 1564 | 3.1942367 | 1597 | 3.2033049 |
| 1532 | 3.1852588 | 1565 | 3.1945143 | 1598 | 3.2035768 |
| 1533 | 3.1855421 | 1566 | 3.1947918 | 1599 | 3.2038485 |
| 1534 | 3.1858254 | 1567 | 3.1950690 | 1600 | 3.2041200 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1601 | 3.2043913 | 1634 | 3.2132521 | 1667 | 3.2219356 |
| 1602 | 3.2046625 | 1635 | 3.2135178 | 1668 | 3.2221960 |
| 1603 | 3.2049335 | 1636 | 3.2137833 | 1669 | 3.2224563 |
| 1604 | 3.2052044 | 1637 | 3.2140487 | 1670 | 3.2227165 |
| 1605 | 3.2054750 | 1638 | 3.2143139 | 1671 | 3.2229764 |
| 1606 | 3.2057455 | 1639 | 3.2145790 | 1672 | 3.2232363 |
| 1607 | 3.2060159 | 1640 | 3.2148438 | 1673 | 3.2234955 |
| 1608 | 3.2062860 | 1641 | 3.2151086 | 1674 | 3.2237551 |
| 1609 | 3.2065560 | 1642 | 3.2153732 | 1675 | 3.2240143 |
| 1610 | 3.2068259 | 1643 | 3.2156376 | 1676 | 3.2242740 |
| 1611 | 3.2070955 | 1644 | 3.2159018 | 1677 | 3.2245331 |
| 1612 | 3.2073650 | 1645 | 3.2161659 | 1678 | 3.2247920 |
| 1613 | 3.2076344 | 1646 | 3.2164298 | 1679 | 3.2250507 |
| 1614 | 3.2079035 | 1647 | 3.2166936 | 1680 | 3.2253093 |
| 1615 | 3.2081725 | 1648 | 3.2169572 | 1681 | 3.2255677 |
| 1616 | 3.2084414 | 1649 | 3.2172207 | 1682 | 3.2258260 |
| 1617 | 3.2087100 | 1650 | 3.2174839 | 1683 | 3.2260841 |
| 1618 | 3.2089785 | 1651 | 3.2177471 | 1684 | 3.2263421 |
| 1619 | 3.2092468 | 1652 | 3.2180100 | 1685 | 3.2265999 |
| 1620 | 3.2095150 | 1653 | 3.2182729 | 1686 | 3.2268576 |
| 1621 | 3.2097830 | 1654 | 3.2185355 | 1687 | 3.2271151 |
| 1622 | 3.2100508 | 1655 | 3.2187980 | 1688 | 3.2273724 |
| 1623 | 3.2103185 | 1656 | 3.2190603 | 1689 | 3.2276296 |
| 1624 | 3.2105860 | 1657 | 3.2193225 | 1690 | 3.2278867 |
| 1625 | 3.2108534 | 1658 | 3.2195845 | 1691 | 3.2281436 |
| 1626 | 3.2111205 | 1659 | 3.2198464 | 1692 | 3.2284004 |
| 1627 | 3.2113876 | 1660 | 3.2201081 | 1693 | 3.2286570 |
| 1628 | 3.2116544 | 1661 | 3.2203696 | 1694 | 3.2289134 |
| 1629 | 3.2119211 | 1662 | 3.2206310 | 1695 | 3.2291697 |
| 1630 | 3.2121876 | 1663 | 3.2208922 | 1696 | 3.2294257 |
| 1631 | 3.2124540 | 1664 | 3.2211533 | 1697 | 3.2296817 |
| 1632 | 3.2127201 | 1665 | 3.2214142 | 1698 | 3.2299374 |
| 1633 | 3.2129862 | 1666 | 3.2216750 | 1699 | 3.2301931 |
| 1634 | 3.2132521 | 1667 | 3.2219356 | 1700 | 3.2304486 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1701 | 3.2307043 | 1734 | 3.2390491 | 1767 | 3.2472365 |
| 1702 | 3.2309596 | 1735 | 3.2392995 | 1768 | 3.2474823 |
| 1703 | 3.2312146 | 1736 | 3.2395497 | 1769 | 3.2477278 |
| 1704 | 3.2314696 | 1737 | 3.2397998 | 1770 | 3.2479733 |
| 1705 | 3.2317244 | 1738 | 3.2400498 | 1771 | 3.2482186 |
| 1706 | 3.2319790 | 1739 | 3.2402996 | 1772 | 3.2484637 |
| 1707 | 3.2322335 | 1740 | 3.2405492 | 1773 | 3.2487087 |
| 1708 | 3.2324879 | 1741 | 3.2407988 | 1774 | 3.2489536 |
| 1709 | 3.2327421 | 1742 | 3.2410481 | 1775 | 3.2491984 |
| 1710 | 3.2329961 | 1743 | 3.2412974 | 1776 | 3.2494430 |
| 1711 | 3.2332500 | 1744 | 3.2415465 | 1777 | 3.2496874 |
| 1712 | 3.2335038 | 1745 | 3.2417954 | 1778 | 3.2499318 |
| 1713 | 3.2337574 | 1746 | 3.2420442 | 1779 | 3.2501759 |
| 1714 | 3.2340108 | 1747 | 3.2422929 | 1780 | 3.2504200 |
| 1715 | 3.2342641 | 1748 | 3.2425414 | 1781 | 3.2506639 |
| 1716 | 3.2345173 | 1749 | 3.2427898 | 1782 | 3.2509077 |
| 1717 | 3.2347703 | 1750 | 3.2430380 | 1783 | 3.2511513 |
| 1718 | 3.2350232 | 1751 | 3.2432861 | 1784 | 3.2513949 |
| 1719 | 3.2352759 | 1752 | 3.2435341 | 1785 | 3.2516382 |
| 1720 | 3.2355284 | 1753 | 3.2437819 | 1786 | 3.2518815 |
| 1721 | 3.2357809 | 1754 | 3.2440296 | 1787 | 3.2521246 |
| 1722 | 3.2360331 | 1755 | 3.2442771 | 1788 | 3.2523675 |
| 1723 | 3.2362853 | 1756 | 3.2445245 | 1789 | 3.2526103 |
| 1724 | 3.2365373 | 1757 | 3.2447718 | 1790 | 3.2528530 |
| 1725 | 3.2367891 | 1758 | 3.2450189 | 1791 | 3.2530956 |
| 1726 | 3.2370408 | 1759 | 3.2452658 | 1792 | 3.2533380 |
| 1727 | 3.2372925 | 1760 | 3.2455127 | 1793 | 3.2535803 |
| 1728 | 3.2375437 | 1761 | 3.2457594 | 1794 | 3.2538224 |
| 1729 | 3.2377950 | 1762 | 3.2460059 | 1795 | 3.2540645 |
| 1730 | 3.2380461 | 1763 | 3.2462523 | 1796 | 3.2543063 |
| 1731 | 3.2382971 | 1764 | 3.2464986 | 1797 | 3.2545481 |
| 1732 | 3.2385479 | 1765 | 3.2467447 | 1798 | 3.2547897 |
| 1733 | 3.2387986 | 1766 | 3.2469907 | 1799 | 3.2550312 |
| 1734 | 3.2390491 | 1767 | 3.2472365 | 1800 | 3.2552725 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1801 | 3.2555137 | 1834 | 3.2633993 | 1867 | 3.271144 |
| 1802 | 3.2557548 | 1835 | 3.2636361 | 1868 | 3.271376 |
| 1803 | 3.2559957 | 1836 | 3.2638727 | 1869 | 3.271609 |
| 1804 | 3.2562365 | 1837 | 3.2641092 | 1870 | 3.271841 |
| 1805 | 3.2564772 | 1838 | 3.2643455 | 1871 | 3.272073 |
| 1806 | 3.2567177 | 1839 | 3.2645817 | 1872 | 3.272305 |
| 1807 | 3.2569582 | 1840 | 3.2648178 | 1873 | 3.272537 |
| 1808 | 3.2571984 | 1841 | 3.2650538 | 1874 | 3.2727696 |
| 1809 | 3.2574386 | 1842 | 3.2652896 | 1875 | 3.273001 |
| 1810 | 3.2576786 | 1843 | 3.2655253 | 1876 | 3.273232 |
| 1811 | 3.2579184 | 1844 | 3.2657609 | 1877 | 3.2734643 |
| 1812 | 3.2581582 | 1845 | 3.2659964 | 1878 | 3.2736956 |
| 1813 | 3.2583978 | 1846 | 3.2662317 | 1879 | 3.2739268 |
| 1814 | 3.2586373 | 1847 | 3.2664669 | 1880 | 3.2741578 |
| 1815 | 3.2588766 | 1848 | 3.2667020 | 1881 | 3.2743888 |
| 1816 | 3.2591158 | 1849 | 3.2669369 | 1882 | 3.2746196 |
| 1817 | 3.2593549 | 1850 | 3.2671717 | 1883 | 3.2748503 |
| 1818 | 3.2595939 | 1851 | 3.2674064 | 1884 | 3.2750809 |
| 1819 | 3.2598327 | 1852 | 3.2676410 | 1885 | 3.2753114 |
| 1820 | 3.2600714 | 1853 | 3.2678754 | 1886 | 3.2755417 |
| 1821 | 3.2603099 | 1854 | 3.2681097 | 1887 | 3.2757719 |
| 1822 | 3.2605484 | 1855 | 3.2683439 | 1888 | 3.2760020 |
| 1823 | 3.2607867 | 1856 | 3.2685780 | 1889 | 3.2762320 |
| 1824 | 3.2610248 | 1857 | 3.2688119 | 1890 | 3.2764618 |
| 1825 | 3.2612629 | 1858 | 3.2690457 | 1891 | 3.2766915 |
| 1826 | 3.2615008 | 1859 | 3.2692794 | 1892 | 3.2769211 |
| 1827 | 3.2617385 | 1860 | 3.2695129 | 1893 | 3.2771506 |
| 1828 | 3.2619762 | 1861 | 3.2697464 | 1894 | 3.2773800 |
| 1829 | 3.2622137 | 1862 | 3.2699797 | 1895 | 3.2776092 |
| 1830 | 3.2624511 | 1863 | 3.2702129 | 1896 | 3.2778383 |
| 1831 | 3.2626883 | 1864 | 3.2704459 | 1897 | 3.2780673 |
| 1832 | 3.2629255 | 1865 | 3.2706788 | 1898 | 3.2782962 |
| 1833 | 3.2631625 | 1866 | 3.2709116 | 1899 | 3.2785250 |
| 1834 | 3.2633993 | 1867 | 3.2711443 | 1900 | 3.2787536 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 1901 | 3.2789821 | 1934 | 3.2864565 | 1967 | 3.2938044 |
| 1902 | 3.2792105 | 1935 | 3.2866810 | 1968 | 3.2940251 |
| 1903 | 3.2794388 | 1936 | 3.2869054 | 1969 | 3.2942457 |
| 1904 | 3.2796669 | 1937 | 3.2871296 | 1970 | 3.2944662 |
| 1905 | 3.2798950 | 1938 | 3.2873538 | 1971 | 3.2946866 |
| 1906 | 3.2801229 | 1939 | 3.2875778 | 1972 | 3.2949069 |
| 1907 | 3.2803507 | 1940 | 3.2878017 | 1973 | 3.2951271 |
| 1908 | 3.2805784 | 1941 | 3.2880255 | 1974 | 3.2953471 |
| 1909 | 3.2808059 | 1942 | 3.2882492 | 1975 | 3.2955671 |
| 1910 | 3.2810334 | 1943 | 3.2884728 | 1976 | 3.2957869 |
| 1911 | 3.2812607 | 1944 | 3.2886963 | 1977 | 3.2960067 |
| 1912 | 3.2814879 | 1945 | 3.2889196 | 1978 | 3.2962263 |
| 1913 | 3.2817150 | 1946 | 3.2891428 | 1979 | 3.2964458 |
| 1914 | 3.2819419 | 1947 | 3.2893659 | 1980 | 3.2966652 |
| 1915 | 3.2821688 | 1948 | 3.2895889 | 1981 | 3.2968845 |
| 1916 | 3.2823955 | 1949 | 3.2898118 | 1982 | 3.2971036 |
| 1917 | 3.2826221 | 1950 | 3.2900346 | 1983 | 3.2973227 |
| 1918 | 3.2828486 | 1951 | 3.2902573 | 1984 | 3.2975417 |
| 1919 | 3.2830750 | 1952 | 3.2904798 | 1985 | 3.2977605 |
| 1920 | 3.2833012 | 1953 | 3.2907022 | 1986 | 3.2979792 |
| 1921 | 3.2835274 | 1954 | 3.2909246 | 1987 | 3.2981979 |
| 1922 | 3.2837534 | 1955 | 3.2911468 | 1988 | 3.2984164 |
| 1923 | 3.2839793 | 1956 | 3.2913688 | 1989 | 3.2986348 |
| 1924 | 3.2842051 | 1957 | 3.2915908 | 1990 | 3.2988531 |
| 1925 | 3.2844307 | 1958 | 3.2918127 | 1991 | 3.2990713 |
| 1926 | 3.2846563 | 1959 | 3.2920344 | 1992 | 3.2992893 |
| 1927 | 3.2848817 | 1960 | 3.2922561 | 1993 | 3.2995073 |
| 1928 | 3.2851070 | 1961 | 3.2924776 | 1994 | 3.2997252 |
| 1929 | 3.2853322 | 1962 | 3.2926990 | 1995 | 3.2999429 |
| 1930 | 3.2855573 | 1963 | 3.2929203 | 1996 | 3.3001605 |
| 1931 | 3.2857823 | 1964 | 3.2931415 | 1997 | 3.3003781 |
| 1932 | 3.2860071 | 1965 | 3.2933626 | 1998 | 3.3005955 |
| 1933 | 3.2862319 | 1966 | 3.2935835 | 1999 | 3.3008128 |
| 1934 | 3.2864565 | 1967 | 3.2938044 | 2000 | 3.3010300 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2001 | 3.3012471 | 2034 | 3.3083509 | 2067 | 3.3153405 |
| 2002 | 3.3014641 | 2035 | 3.3085644 | 2068 | 3.3155505 |
| 2003 | 3.3016809 | 2036 | 3.3087778 | 2069 | 3.3157605 |
| 2004 | 3.3018977 | 2037 | 3.3089910 | 2070 | 3.3159703 |
| 2005 | 3.3021144 | 2038 | 3.3092042 | 2071 | 3.3161801 |
| 2006 | 3.3023309 | 2039 | 3.3094172 | 2072 | 3.3163897 |
| 2007 | 3.3025474 | 2040 | 3.3096302 | 2073 | 3.3165993 |
| 2008 | 3.3027637 | 2041 | 3.3098430 | 2074 | 3.3168088 |
| 2009 | 3.3029799 | 2042 | 3.3100557 | 2075 | 3.3170181 |
| 2010 | 3.3031961 | 2043 | 3.3102684 | 2076 | 3.3172273 |
| 2011 | 3.3034121 | 2044 | 3.3104809 | 2077 | 3.3174365 |
| 2012 | 3.3036280 | 2045 | 3.3106933 | 2078 | 3.3176455 |
| 2013 | 3.3038438 | 2046 | 3.3109056 | 2079 | 3.3178545 |
| 2014 | 3.3040595 | 2047 | 3.3111178 | 2080 | 3.3180633 |
| 2015 | 3.3042751 | 2048 | 3.3113299 | 2081 | 3.3182721 |
| 2016 | 3.3044905 | 2049 | 3.3115420 | 2082 | 3.3184807 |
| 2017 | 3.3047059 | 2050 | 3.3117539 | 2083 | 3.3186893 |
| 2018 | 3.3049212 | 2051 | 3.3119657 | 2084 | 3.3188977 |
| 2019 | 3.3051363 | 2052 | 3.3121774 | 2085 | 3.3191061 |
| 2020 | 3.3053514 | 2053 | 3.3123889 | 2086 | 3.3193143 |
| 2021 | 3.3055663 | 2054 | 3.3126004 | 2087 | 3.3195224 |
| 2022 | 3.3057812 | 2055 | 3.3128118 | 2088 | 3.3197305 |
| 2023 | 3.3059959 | 2056 | 3.3130231 | 2089 | 3.3199384 |
| 2024 | 3.3062105 | 2057 | 3.3132343 | 2090 | 3.3201463 |
| 2025 | 3.3064250 | 2058 | 3.3134454 | 2091 | 3.3203540 |
| 2026 | 3.3066394 | 2059 | 3.3136563 | 2092 | 3.3205617 |
| 2027 | 3.3068537 | 2060 | 3.3138672 | 2093 | 3.3207692 |
| 2028 | 3.3070679 | 2061 | 3.3140780 | 2094 | 3.3209767 |
| 2029 | 3.3072820 | 2062 | 3.3142887 | 2095 | 3.3211840 |
| 2030 | 3.3074960 | 2063 | 3.3144992 | 2096 | 3.3213913 |
| 2031 | 3.3077099 | 2064 | 3.3147097 | 2097 | 3.3215984 |
| 2032 | 3.3079237 | 2065 | 3.3149201 | 2098 | 3.3218055 |
| 2033 | 3.3081374 | 2066 | 3.3151303 | 2099 | 3.3220124 |
| 2034 | 3.3083509 | 2067 | 3.3153405 | 2100 | 3.3222193 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2101 | 3.3224260 | 2134 | 3.3291944 | 2167 | 3.3358589 |
| 2102 | 3.3226327 | 2135 | 3.3293979 | 2168 | 3.3360593 |
| 2103 | 3.3228393 | 2136 | 3.3296012 | 2169 | 3.3362597 |
| 2104 | 3.3230457 | 2137 | 3.3298045 | 2170 | 3.3364597 |
| 2105 | 3.3232521 | 2138 | 3.3300077 | 2171 | 3.3366598 |
| 2106 | 3.3234584 | 2139 | 3.3302108 | 2172 | 3.3368598 |
| 2107 | 3.3236645 | 2140 | 3.3304138 | 2173 | 3.3370597 |
| 2108 | 3.3238706 | 2141 | 3.3306167 | 2174 | 3.3372595 |
| 2109 | 3.3240766 | 2142 | 3.3308195 | 2175 | 3.3374593 |
| 2110 | 3.3242825 | 2143 | 3.3310222 | 2176 | 3.3376589 |
| 2111 | 3.3244882 | 2144 | 3.3312248 | 2177 | 3.3378584 |
| 2112 | 3.3246939 | 2145 | 3.3314273 | 2178 | 3.3380579 |
| 2113 | 3.3248995 | 2146 | 3.3316297 | 2179 | 3.3382572 |
| 2114 | 3.3251050 | 2147 | 3.3318320 | 2180 | 3.3384565 |
| 2115 | 3.3253104 | 2148 | 3.3320343 | 2181 | 3.3386557 |
| 2116 | 3.3255157 | 2149 | 3.3322364 | 2182 | 3.3388547 |
| 2117 | 3.3257209 | 2150 | 3.3324385 | 2183 | 3.3390537 |
| 2118 | 3.3259260 | 2151 | 3.3326404 | 2184 | 3.3392526 |
| 2119 | 3.3261310 | 2152 | 3.3328423 | 2185 | 3.3394514 |
| 2120 | 3.3263359 | 2153 | 3.3330440 | 2186 | 3.3396502 |
| 2121 | 3.3265407 | 2154 | 3.3332457 | 2187 | 3.3398488 |
| 2122 | 3.3267454 | 2155 | 3.3334473 | 2188 | 3.3400473 |
| 2123 | 3.3269500 | 2156 | 3.3336488 | 2189 | 3.3402458 |
| 2124 | 3.3271545 | 2157 | 3.3338501 | 2190 | 3.3404441 |
| 2125 | 3.3273589 | 2158 | 3.3340514 | 2191 | 3.3406424 |
| 2126 | 3.3275633 | 2159 | 3.3342526 | 2192 | 3.3408405 |
| 2127 | 3.3277675 | 2160 | 3.3344538 | 2193 | 3.3410386 |
| 2128 | 3.3279716 | 2161 | 3.3346548 | 2194 | 3.3412366 |
| 2129 | 3.3281757 | 2162 | 3.3348557 | 2195 | 3.3414345 |
| 2130 | 3.3283796 | 2163 | 3.3350565 | 2196 | 3.3416323 |
| 2131 | 3.3285834 | 2164 | 3.3352573 | 2197 | 3.3418301 |
| 2132 | 3.3287872 | 2165 | 3.3354579 | 2198 | 3.3420277 |
| 2133 | 3.3289909 | 2166 | 3.3356585 | 2199 | 3.3422252 |
| 2134 | 3.3291944 | 2167 | 3.3358589 | 2200 | 3.3424227 |

| N. | Logarith. | N. | Logarith. | N. | Logarith |
|---|---|---|---|---|---|
| 2201 | 3.3426200 | 2234 | 3.3490832 | 2267 | 3.3554511 |
| 2202 | 3.3428173 | 2235 | 3.3492775 | 2268 | 3.3556436 |
| 2203 | 3.3430145 | 2236 | 3.3494718 | 2269 | 3.3558346 |
| 2204 | 3.3432116 | 2237 | 3.3496660 | 2270 | 3.3560255 |
| 2205 | 3.3434086 | 2238 | 3.3498601 | 2271 | 3.3562171 |
| 2206 | 3.3436055 | 2239 | 3.3500541 | 2272 | 3.3564083 |
| 2207 | 3.3438023 | 2240 | 3.3502480 | 2273 | 3.3565994 |
| 2208 | 3.3439991 | 2241 | 3.3504419 | 2274 | 3.3567905 |
| 2209 | 3.3441957 | 2242 | 3.3506356 | 2275 | 3.3569814 |
| 2210 | 3.3443923 | 2243 | 3.3508293 | 2276 | 3.3571723 |
| 2211 | 3.3445887 | 2244 | 3.3510228 | 2277 | 3.3573630 |
| 2212 | 3.3447851 | 2245 | 3.3512163 | 2278 | 3.3575537 |
| 2213 | 3.3449814 | 2246 | 3.3514098 | 2279 | 3.3577443 |
| 2214 | 3.3451776 | 2247 | 3.3516031 | 2280 | 3.3579348 |
| 2215 | 3.3453737 | 2248 | 3.3517963 | 2281 | 3.3581253 |
| 2216 | 3.3455698 | 2249 | 3.3519895 | 2282 | 3.3583156 |
| 2217 | 3.3457657 | 2250 | 3.3521825 | 2283 | 3.3585059 |
| 2218 | 3.3459615 | 2251 | 3.3523755 | 2284 | 3.3586961 |
| 2219 | 3.3461573 | 2252 | 3.3525684 | 2285 | 3.3588862 |
| 2220 | 3.3463530 | 2253 | 3.3527612 | 2286 | 3.3590762 |
| 2221 | 3.3465486 | 2254 | 3.3529539 | 2287 | 3.3592662 |
| 2222 | 3.3467441 | 2255 | 3.3531465 | 2288 | 3.3594560 |
| 2223 | 3.3469395 | 2256 | 3.3533391 | 2289 | 3.3596458 |
| 2224 | 3.3471348 | 2257 | 3.3535316 | 2290 | 3.3598355 |
| 2225 | 3.3473300 | 2258 | 3.3537239 | 2291 | 3.3600251 |
| 2226 | 3.3475252 | 2259 | 3.3539162 | 2292 | 3.3602146 |
| 2227 | 3.3477202 | 2260 | 3.3541084 | 2293 | 3.3604041 |
| 2228 | 3.3479152 | 2261 | 3.3543006 | 2294 | 3.3605934 |
| 2229 | 3.3481101 | 2262 | 3.3544926 | 2295 | 3.3607827 |
| 2230 | 3.3483996 | 2263 | 3.3546846 | 2296 | 3.3609719 |
| 2231 | 3.3484996 | 2264 | 3.3548764 | 2297 | 3.3611610 |
| 2232 | 3.3486942 | 2265 | 3.3550682 | 2298 | 3.3613500 |
| 2233 | 3.3488887 | 2266 | 3.3552599 | 2299 | 3.3615390 |
| 2234 | 3.3490832 | 2267 | 3.3554515 | 2300 | 3.3617278 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2301 | 3.3619166 | 2334 | 3.3681008 | 2367 | 3.3741983 |
| 2302 | 3.3621053 | 2335 | 3.3682869 | 2368 | 3.3743817 |
| 2303 | 3.3622937 | 2336 | 3.3684728 | 2369 | 3.3745651 |
| 2304 | 3.3624825 | 2337 | 3.3686587 | 2370 | 3.3747483 |
| 2305 | 3.3626709 | 2338 | 3.3688445 | 2371 | 3.3749316 |
| 2306 | 3.3628593 | 2339 | 3.3690302 | 2372 | 3.3751147 |
| 2307 | 3.3630476 | 2340 | 3.3692159 | 2373 | 3.3752977 |
| 2308 | 3.3632358 | 2341 | 3.3694014 | 2374 | 3.3754807 |
| 2309 | 3.3634239 | 2342 | 3.3695869 | 2375 | 3.3756636 |
| 2310 | 3.3636120 | 2343 | 3.3697723 | 2376 | 3.3758464 |
| 2311 | 3.3637999 | 2344 | 3.3699576 | 2377 | 3.3760292 |
| 2312 | 3.3639878 | 2345 | 3.3701428 | 2378 | 3.3762118 |
| 2313 | 3.3641755 | 2346 | 3.3703280 | 2379 | 3.3763944 |
| 2314 | 3.3643634 | 2347 | 3.3705131 | 2380 | 3.3765770 |
| 2315 | 3.3645510 | 2348 | 3.3706981 | 2381 | 3.3767594 |
| 2316 | 3.3647386 | 2349 | 3.3708830 | 2382 | 3.3769418 |
| 2317 | 3.3649260 | 2350 | 3.3710679 | 2383 | 3.3771240 |
| 2318 | 3.3651134 | 2351 | 3.3712526 | 2384 | 3.3773062 |
| 2319 | 3.3653007 | 2352 | 3.3714373 | 2385 | 3.3774884 |
| 2320 | 3.3654880 | 2353 | 3.3716219 | 2386 | 3.3776704 |
| 2321 | 3.3656751 | 2354 | 3.3718065 | 2387 | 3.3778524 |
| 2322 | 3.3658622 | 2355 | 3.3719909 | 2388 | 3.3780343 |
| 2323 | 3.3660492 | 2356 | 3.3721753 | 2389 | 3.3782161 |
| 2324 | 3.3662361 | 2357 | 3.3723596 | 2390 | 3.3783979 |
| 2325 | 3.3664230 | 2358 | 3.3725438 | 2391 | 3.3785796 |
| 2326 | 3.3666097 | 2359 | 3.3727279 | 2392 | 3.3787612 |
| 2327 | 3.3667964 | 2360 | 3.3729120 | 2393 | 3.3789427 |
| 2328 | 3.3669830 | 2361 | 3.3730960 | 2394 | 3.3791241 |
| 2329 | 3.3671695 | 2362 | 3.3732799 | 2395 | 3.3793055 |
| 2330 | 3.3673559 | 2363 | 3.3734637 | 2396 | 3.3794868 |
| 2331 | 3.3675423 | 2364 | 3.3736475 | 2397 | 3.3796680 |
| 2332 | 3.3677285 | 2365 | 3.3738311 | 2398 | 3.3798492 |
| 2333 | 3.3679147 | 2366 | 3.3740147 | 2399 | 3.3800302 |
| 2334 | 3.3681008 | 2367 | 3.3741983 | 2400 | 3.3802112 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2401 | 3.3803922 | 2434 | 3.3863206 | 2467 | 3.3921691 |
| 2402 | 3.3805730 | 2435 | 3.3864990 | 2468 | 3.3923452 |
| 2403 | 3.3807538 | 2436 | 3.3866773 | 2469 | 3.3925211 |
| 2404 | 3.3809345 | 2437 | 3.3868555 | 2470 | 3.3926970 |
| 2405 | 3.3811151 | 2438 | 3.3870337 | 2471 | 3.3928727 |
| 2406 | 3.3812956 | 2439 | 3.3872118 | 2472 | 3.3930485 |
| 2407 | 3.3814761 | 2440 | 3.3873898 | 2473 | 3.3932241 |
| 2408 | 3.3816565 | 2441 | 3.3875678 | 2474 | 3.3933997 |
| 2409 | 3.3818368 | 2442 | 3.3877457 | 2475 | 3.3935752 |
| 2410 | 3.3820170 | 2443 | 3.3879235 | 2476 | 3.3937506 |
| 2411 | 3.3821972 | 2444 | 3.3881012 | 2477 | 3.3939260 |
| 2412 | 3.3823773 | 2445 | 3.3882789 | 2478 | 3.3941013 |
| 2413 | 3.3825573 | 2446 | 3.3884565 | 2479 | 3.3942765 |
| 2414 | 3.3827373 | 2447 | 3.3886340 | 2480 | 3.3944517 |
| 2415 | 3.3829171 | 2448 | 3.3888114 | 2481 | 3.3946268 |
| 2416 | 3.3830969 | 2449 | 3.3889888 | 2482 | 3.3948018 |
| 2417 | 3.3832767 | 2450 | 3.3891661 | 2483 | 3.3949767 |
| 2418 | 3.3834563 | 2451 | 3.3893433 | 2484 | 3.3951516 |
| 2419 | 3.3836359 | 2452 | 3.3895205 | 2485 | 3.3953264 |
| 2420 | 3.3838154 | 2453 | 3.3896975 | 2486 | 3.3955011 |
| 2421 | 3.3839948 | 2454 | 3.3898746 | 2487 | 3.3956758 |
| 2422 | 3.3841741 | 2455 | 3.3900515 | 2488 | 3.3958504 |
| 2423 | 3.3843534 | 2456 | 3.3902284 | 2489 | 3.3960249 |
| 2424 | 3.3845326 | 2457 | 3.3904052 | 2490 | 3.3961993 |
| 2425 | 3.3847117 | 2458 | 3.3905819 | 2491 | 3.3963737 |
| 2426 | 3.3848908 | 2459 | 3.3907585 | 2492 | 3.3965480 |
| 2427 | 3.3850698 | 2460 | 3.3909351 | 2493 | 3.3967223 |
| 2428 | 3.3852487 | 2461 | 3.3911116 | 2494 | 3.3968964 |
| 2429 | 3.3854275 | 2462 | 3.3912880 | 2495 | 3.3970706 |
| 2430 | 3.3856063 | 2463 | 3.3914644 | 2496 | 3.3972446 |
| 2431 | 3.3857850 | 2464 | 3.3916407 | 2497 | 3.3974185 |
| 2432 | 3.3859636 | 2465 | 3.3918169 | 2498 | 3.3975924 |
| 2433 | 3.3861421 | 2466 | 3.3919931 | 2499 | 3.3977663 |
| 2434 | 3.3863206 | 2467 | 3.3921691 | 2500 | 3.3979400 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2501 | 3.3981137 | 2534 | 3.4038066 | 2567 | 3.4094259 |
| 2502 | 3.3982873 | 2535 | 3.4039780 | 2568 | 3.4095950 |
| 2503 | 3.3984608 | 2536 | 3.4041492 | 2569 | 3.4097641 |
| 2504 | 3.3986343 | 2537 | 3.4043205 | 2570 | 3.4099331 |
| 2505 | 3.3988077 | 2538 | 3.4044916 | 2571 | 3.4101021 |
| 2506 | 3.3989811 | 2539 | 3.4046627 | 2572 | 3.4102710 |
| 2507 | 3.3991543 | 2540 | 3.4048337 | 2573 | 3.4104398 |
| 2508 | 3.3993275 | 2541 | 3.4050047 | 2574 | 3.4106085 |
| 2509 | 3.3995007 | 2542 | 3.4051755 | 2575 | 3.4107772 |
| 2510 | 3.3996737 | 2543 | 3.4053464 | 2576 | 3.4109459 |
| 2511 | 3.3998467 | 2544 | 3.4055171 | 2577 | 3.4111144 |
| 2512 | 3.4000196 | 2545 | 3.4056878 | 2578 | 3.4112829 |
| 2513 | 3.4001925 | 2546 | 3.4058584 | 2579 | 3.4114513 |
| 2514 | 3.4003653 | 2547 | 3.4060289 | 2580 | 3.4116197 |
| 2515 | 3.4005380 | 2548 | 3.4061994 | 2581 | 3.4117880 |
| 2516 | 3.4007106 | 2549 | 3.4063698 | 2582 | 3.4119562 |
| 2517 | 3.4008832 | 2550 | 3.4065402 | 2583 | 3.4121244 |
| 2518 | 3.4010557 | 2551 | 3.4067105 | 2584 | 3.4122925 |
| 2519 | 3.4012282 | 2552 | 3.4068807 | 2585 | 3.4124605 |
| 2520 | 3.4014005 | 2553 | 3.4070508 | 2586 | 3.4126285 |
| 2521 | 3.4015728 | 2554 | 3.4072209 | 2587 | 3.4127964 |
| 2522 | 3.4017451 | 2555 | 3.4073909 | 2588 | 3.4129643 |
| 2523 | 3.4019173 | 2556 | 3.4075608 | 2589 | 3.4131320 |
| 2524 | 3.4020893 | 2557 | 3.4077307 | 2590 | 3.4132998 |
| 2525 | 3.4022614 | 2558 | 3.4079005 | 2591 | 3.4134674 |
| 2526 | 3.4024333 | 2559 | 3.4080703 | 2592 | 3.4136350 |
| 2527 | 3.4026052 | 2560 | 3.4082400 | 2593 | 3.4138025 |
| 2528 | 3.4027771 | 2561 | 3.4084096 | 2594 | 3.4139700 |
| 2529 | 3.4029488 | 2562 | 3.4085791 | 2595 | 3.4141374 |
| 2530 | 3.4031205 | 2563 | 3.4087486 | 2596 | 3.4143047 |
| 2531 | 3.4032921 | 2564 | 3.4089180 | 2597 | 3.4144719 |
| 2532 | 3.4034637 | 2565 | 3.4090874 | 2598 | 3.4146391 |
| 2533 | 3.4036352 | 2566 | 3.4092567 | 2599 | 3.4148063 |
| 2534 | 3.4038066 | 2567 | 3.4094259 | 2600 | 3.4149733 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2601 | 3.4151404 | 2634 | 3.4206158 | 2667 | 3.4260230 |
| 2602 | 3.4153073 | 2635 | 3.4207806 | 2668 | 3.4261858 |
| 2603 | 3.4154742 | 2636 | 3.4209454 | 2669 | 3.4263486 |
| 2604 | 3.4156410 | 2637 | 3.4211101 | 2670 | 3.4265113 |
| 2605 | 3.4158077 | 2638 | 3.4212748 | 2671 | 3.4266739 |
| 2606 | 3.4159744 | 2639 | 3.4214394 | 2672 | 3.4268365 |
| 2607 | 3.4161410 | 2640 | 3.4216039 | 2673 | 3.4269990 |
| 2608 | 3.4163076 | 2641 | 3.4217684 | 2674 | 3.4271614 |
| 2609 | 3.4164741 | 2642 | 3.4219328 | 2675 | 3.4273238 |
| 2610 | 3.4166405 | 2643 | 3.4220972 | 2676 | 3.4274861 |
| 2611 | 3.4168069 | 2644 | 3.4222614 | 2677 | 3.4276484 |
| 2612 | 3.4169732 | 2645 | 3.4224257 | 2678 | 3.4278106 |
| 2613 | 3.4171394 | 2646 | 3.4225898 | 2679 | 3.4279727 |
| 2614 | 3.4173056 | 2647 | 3.4227539 | 2680 | 3.4281348 |
| 2615 | 3.4174717 | 2648 | 3.4229180 | 2681 | 3.4282968 |
| 2616 | 3.4176377 | 2649 | 3.4230820 | 2682 | 3.4284588 |
| 2617 | 3.4178037 | 2650 | 3.4232459 | 2683 | 3.4286207 |
| 2618 | 3.4179696 | 2651 | 3.4234097 | 2684 | 3.4287825 |
| 2619 | 3.4181355 | 2652 | 3.4235735 | 2685 | 3.4289443 |
| 2620 | 3.4183013 | 2653 | 3.4237372 | 2686 | 3.4291060 |
| 2621 | 3.4184670 | 2654 | 3.4239009 | 2687 | 3.4292677 |
| 2622 | 3.4186327 | 2655 | 3.4240645 | 2688 | 3.4294293 |
| 2623 | 3.4187983 | 2656 | 3.4242281 | 2689 | 3.4295908 |
| 2624 | 3.4189638 | 2657 | 3.4243916 | 2690 | 3.4297523 |
| 2625 | 3.4191293 | 2658 | 3.4245550 | 2691 | 3.4299137 |
| 2626 | 3.4192947 | 2659 | 3.4247183 | 2692 | 3.4300751 |
| 2627 | 3.4194601 | 2660 | 3.4248816 | 2693 | 3.4302364 |
| 2628 | 3.4196254 | 2661 | 3.4250449 | 2694 | 3.4303976 |
| 2629 | 3.4197906 | 2662 | 3.4252080 | 2695 | 3.4305588 |
| 2630 | 3.4199557 | 2663 | 3.4253712 | 2696 | 3.4307199 |
| 2631 | 3.4201208 | 2664 | 3.4255342 | 2697 | 3.4308809 |
| 2632 | 3.4202859 | 2665 | 3.4256972 | 2698 | 3.4310419 |
| 2633 | 3.4204509 | 2666 | 3.4258601 | 2699 | 3.4312029 |
| 2634 | 3.4206158 | 2667 | 3.4260230 | 2700 | 3.4313638 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2701 | 3.4315246 | 2734 | 3.4367985 | 2767 | 3.4420092 |
| 2702 | 3.4316853 | 2735 | 3.4369573 | 2768 | 3.4421661 |
| 2703 | 3.4318460 | 2736 | 3.4371161 | 2769 | 3.4423230 |
| 2704 | 3.4320067 | 2737 | 3.4372748 | 2770 | 3.4424798 |
| 2705 | 3.4321673 | 2738 | 3.4374334 | 2771 | 3.4426365 |
| 2706 | 3.4323278 | 2739 | 3.4375920 | 2772 | 3.4427932 |
| 2707 | 3.4324883 | 2740 | 3.4377506 | 2773 | 3.4429499 |
| 2708 | 3.4326487 | 2741 | 3.4379090 | 2774 | 3.4431065 |
| 2709 | 3.4328090 | 2742 | 3.4380675 | 2775 | 3.4432630 |
| 2710 | 3.4329693 | 2743 | 3.4382258 | 2776 | 3.4434195 |
| 2711 | 3.4331295 | 2744 | 3.4383841 | 2777 | 3.4435759 |
| 2712 | 3.4332897 | 2745 | 3.4385423 | 2778 | 3.4437322 |
| 2713 | 3.4334498 | 2746 | 3.4387005 | 2779 | 3.4438885 |
| 2714 | 3.4336098 | 2747 | 3.4388587 | 2780 | 3.4440448 |
| 2715 | 3.4337698 | 2748 | 3.4390167 | 2781 | 3.4442010 |
| 2716 | 3.4339298 | 2749 | 3.4391747 | 2782 | 3.4443571 |
| 2717 | 3.4340896 | 2750 | 3.4393327 | 2783 | 3.4445132 |
| 2718 | 3.4342494 | 2751 | 3.4394906 | 2784 | 3.4446692 |
| 2719 | 3.4344092 | 2752 | 3.4396484 | 2785 | 3.4448252 |
| 2720 | 3.4345689 | 2753 | 3.4398062 | 2786 | 3.4449811 |
| 2721 | 3.4347285 | 2754 | 3.4399639 | 2787 | 3.4451370 |
| 2722 | 3.4348881 | 2755 | 3.4401216 | 2788 | 3.4452928 |
| 2723 | 3.4350476 | 2756 | 3.4402792 | 2789 | 3.4454485 |
| 2724 | 3.4352071 | 2757 | 3.4404368 | 2790 | 3.4456042 |
| 2725 | 3.4353665 | 2758 | 3.4405943 | 2791 | 3.4457598 |
| 2726 | 3.4355258 | 2759 | 3.4407517 | 2792 | 3.4459154 |
| 2727 | 3.4356851 | 2760 | 3.4409091 | 2793 | 3.4460709 |
| 2728 | 3.4358444 | 2761 | 3.4410664 | 2794 | 3.4462264 |
| 2729 | 3.4360035 | 2762 | 3.4412237 | 2795 | 3.4463818 |
| 2730 | 3.4361626 | 2763 | 3.4413809 | 2796 | 3.4465372 |
| 2731 | 3.4363217 | 2764 | 3.4415380 | 2797 | 3.4466925 |
| 2732 | 3.4364807 | 2765 | 3.4416951 | 2798 | 3.4468477 |
| 2733 | 3.4366396 | 2766 | 3.4418522 | 2799 | 3.4470029 |
| 2734 | 3.4367985 | 2767 | 3.4420092 | 2800 | 3.4471580 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2801 | 3.4473131 | 2834 | 3.4523998 | 2867 | 3.4574277 |
| 2802 | 3.4474681 | 2835 | 3.4525531 | 2868 | 3.4575791 |
| 2803 | 3.4476231 | 2836 | 3.4527062 | 2869 | 3.4577305 |
| 2804 | 3.4477780 | 2837 | 3.4528593 | 2870 | 3.4578815 |
| 2805 | 3.4479329 | 2838 | 3.4530124 | 2871 | 3.4580334 |
| 2806 | 3.4480877 | 2839 | 3.4531654 | 2872 | 3.4581844 |
| 2807 | 3.4482424 | 2840 | 3.4533183 | 2873 | 3.4583356 |
| 2808 | 3.4483971 | 2841 | 3.4534712 | 2874 | 3.4584868 |
| 2809 | 3.4485517 | 2842 | 3.4536241 | 2875 | 3.4586378 |
| 2810 | 3.4487063 | 2843 | 3.4537769 | 2876 | 3.4587889 |
| 2811 | 3.4488608 | 2844 | 3.4539296 | 2877 | 3.4589399 |
| 2812 | 3.4490153 | 2845 | 3.4540823 | 2878 | 3.4590908 |
| 2813 | 3.4491697 | 2846 | 3.4542349 | 2879 | 3.4592417 |
| 2814 | 3.4493241 | 2847 | 3.4543875 | 2880 | 3.4593926 |
| 2815 | 3.4494784 | 2848 | 3.4545400 | 2881 | 3.4595435 |
| 2816 | 3.4496326 | 2849 | 3.4546924 | 2882 | 3.4596944 |
| 2817 | 3.4497868 | 2850 | 3.4548449 | 2883 | 3.4598452 |
| 2818 | 3.4499410 | 2851 | 3.4549972 | 2884 | 3.4599959 |
| 2819 | 3.4500951 | 2852 | 3.4551495 | 2885 | 3.4601467 |
| 2820 | 3.4502491 | 2853 | 3.4553018 | 2886 | 3.4602974 |
| 2821 | 3.4504031 | 2854 | 3.4554540 | 2887 | 3.4604480 |
| 2822 | 3.4505570 | 2855 | 3.4556061 | 2888 | 3.4605987 |
| 2823 | 3.4507109 | 2856 | 3.4557582 | 2889 | 3.4607493 |
| 2824 | 3.4508647 | 2857 | 3.4559102 | 2890 | 3.4608997 |
| 2825 | 3.4510184 | 2858 | 3.4560622 | 2891 | 3.4610502 |
| 2826 | 3.4511722 | 2859 | 3.4562142 | 2892 | 3.4612008 |
| 2827 | 3.4513258 | 2860 | 3.4563660 | 2893 | 3.4613513 |
| 2828 | 3.4514794 | 2861 | 3.4565179 | 2894 | 3.4615018 |
| 2829 | 3.4516329 | 2862 | 3.4566696 | 2895 | 3.4616523 |
| 2830 | 3.4517864 | 2863 | 3.4568213 | 2896 | 3.4618027 |
| 2831 | 3.4519399 | 2864 | 3.4569730 | 2897 | 3.4619531 |
| 2832 | 3.4520932 | 2865 | 3.4571246 | 2898 | 3.4621035 |
| 2833 | 3.4522466 | 2866 | 3.4572762 | 2899 | 3.4622538 |
| 2834 | 3.4523998 | 2867 | 3.4574277 | 2900 | 3.4624041 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2901 | 3.4625477 | 2934 | 3.4674601 | 2967 | 3.4723175 |
| 2902 | 3.4626974 | 2935 | 3.4676081 | 2968 | 3.4724639 |
| 2903 | 3.4628470 | 2936 | 3.4677560 | 2969 | 3.4726102 |
| 2904 | 3.4629966 | 2937 | 3.4679039 | 2970 | 3.4727564 |
| 2905 | 3.4631461 | 2938 | 3.4680518 | 2971 | 3.4729027 |
| 2906 | 3.4632956 | 2939 | 3.4681996 | 2972 | 3.4730488 |
| 2907 | 3.4634450 | 2940 | 3.4683473 | 2973 | 3.4731949 |
| 2908 | 3.4635944 | 2941 | 3.4684950 | 2974 | 3.4733410 |
| 2909 | 3.4637437 | 2942 | 3.4686427 | 2975 | 3.4734870 |
| 2910 | 3.4638930 | 2943 | 3.4687903 | 2976 | 3.4736329 |
| 2911 | 3.4640422 | 2944 | 3.4689378 | 2977 | 3.4737788 |
| 2912 | 3.4641914 | 2945 | 3.4690853 | 2978 | 3.4739247 |
| 2913 | 3.4643405 | 2946 | 3.4692327 | 2979 | 3.4740705 |
| 2914 | 3.4644895 | 2947 | 3.4693801 | 2980 | 3.4742163 |
| 2915 | 3.4646386 | 2948 | 3.4695275 | 2981 | 3.4743620 |
| 2916 | 3.4647875 | 2949 | 3.4696748 | 2982 | 3.4745076 |
| 2917 | 3.4649364 | 2950 | 3.4698220 | 2983 | 3.4746533 |
| 2918 | 3.4650853 | 2951 | 3.4699692 | 2984 | 3.4747988 |
| 2919 | 3.4652341 | 2952 | 3.4701163 | 2985 | 3.4749443 |
| 2920 | 3.4653828 | 2953 | 3.4702634 | 2986 | 3.4750898 |
| 2921 | 3.4655316 | 2954 | 3.4704105 | 2987 | 3.4752352 |
| 2922 | 3.4656802 | 2955 | 3.4705575 | 2988 | 3.4753806 |
| 2923 | 3.4658288 | 2956 | 3.4707044 | 2989 | 3.4755259 |
| 2924 | 3.4659774 | 2957 | 3.4708513 | 2990 | 3.4756712 |
| 2925 | 3.4661259 | 2958 | 3.4709982 | 2991 | 3.4758164 |
| 2926 | 3.4662743 | 2959 | 3.4711450 | 2992 | 3.4759616 |
| 2927 | 3.4664227 | 2960 | 3.4712917 | 2993 | 3.4761067 |
| 2928 | 3.4665711 | 2961 | 3.4714384 | 2994 | 3.4762518 |
| 2929 | 3.4667194 | 2962 | 3.4715851 | 2995 | 3.4763968 |
| 2930 | 3.4668676 | 2963 | 3.4717317 | 2996 | 3.4765418 |
| 2931 | 3.4670158 | 2964 | 3.4718782 | 2997 | 3.4766867 |
| 2932 | 3.4671640 | 2965 | 3.4720247 | 2998 | 3.4768316 |
| 2933 | 3.4673121 | 2966 | 3.4721711 | 2999 | 3.4769765 |
| 2934 | 3.4674601 | 2967 | 3.4723175 | 3000 | 3.4771213 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3001 | 3.4772660 | 3034 | 3.4820156 | 3067 | 3.4867138 |
| 3002 | 3.4774107 | 3035 | 3.4821587 | 3068 | 3.4868554 |
| 3003 | 3.4775553 | 3036 | 3.4823018 | 3069 | 3.4869969 |
| 3004 | 3.4776999 | 3037 | 3.4824448 | 3070 | 3.4871384 |
| 3005 | 3.4778445 | 3038 | 3.4825878 | 3071 | 3.4872798 |
| 3006 | 3.4779890 | 3039 | 3.4827307 | 3072 | 3.4874212 |
| 3007 | 3.4781334 | 3040 | 3.4828736 | 3073 | 3.4875626 |
| 3008 | 3.4782778 | 3041 | 3.4830164 | 3074 | 3.4877039 |
| 3009 | 3.4784222 | 3042 | 3.4831592 | 3075 | 3.4878451 |
| 3010 | 3.4785665 | 3043 | 3.4833019 | 3076 | 3.4879863 |
| 3011 | 3.4787108 | 3044 | 3.4834446 | 3077 | 3.4881275 |
| 3012 | 3.4788550 | 3045 | 3.4835873 | 3078 | 3.4882686 |
| 3013 | 3.4789991 | 3046 | 3.4837299 | 3079 | 3.4884097 |
| 3014 | 3.4791432 | 3047 | 3.4838725 | 3080 | 3.4885507 |
| 3015 | 3.4792873 | 3048 | 3.4840150 | 3081 | 3.4886917 |
| 3016 | 3.4794313 | 3049 | 3.4841574 | 3082 | 3.4888326 |
| 3017 | 3.4795753 | 3050 | 3.4842998 | 3083 | 3.4889735 |
| 3018 | 3.4797192 | 3051 | 3.4844422 | 3084 | 3.4891144 |
| 3019 | 3.4798631 | 3052 | 3.4845845 | 3085 | 3.4892552 |
| 3020 | 3.4800069 | 3053 | 3.4847268 | 3086 | 3.4893959 |
| 3021 | 3.4801507 | 3054 | 3.4848690 | 3087 | 3.4895366 |
| 3022 | 3.4802945 | 3055 | 3.4850112 | 3088 | 3.4896773 |
| 3023 | 3.4804381 | 3056 | 3.4851533 | 3089 | 3.4898179 |
| 3024 | 3.4805818 | 3057 | 3.4852954 | 3090 | 3.4899585 |
| 3025 | 3.4807254 | 3058 | 3.4854375 | 3091 | 3.4900990 |
| 3026 | 3.4808689 | 3059 | 3.4855795 | 3092 | 3.4902395 |
| 3027 | 3.4810124 | 3060 | 3.4857214 | 3093 | 3.4903799 |
| 3028 | 3.4811559 | 3061 | 3.4858633 | 3094 | 3.4905203 |
| 3029 | 3.4812993 | 3062 | 3.4860052 | 3095 | 3.4906607 |
| 3030 | 3.4814426 | 3063 | 3.4861470 | 3096 | 3.4908009 |
| 3031 | 3.4815859 | 3064 | 3.4862888 | 3097 | 3.4909412 |
| 3032 | 3.4817292 | 3065 | 3.4864305 | 3098 | 3.4910814 |
| 3033 | 3.4818724 | 3066 | 3.4865721 | 3099 | 3.4912216 |
| 3034 | 3.4820156 | 3067 | 3.4867138 | 3100 | 3.4913617 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3101 | 3.4915018 | 3134 | 3.4960990 | 3167 | 3.5006481 |
| 3102 | 3.4916418 | 3135 | 3.4962375 | 3168 | 3.5007852 |
| 3103 | 3.4917818 | 3136 | 3.4963761 | 3169 | 3.5009222 |
| 3104 | 3.4919217 | 3137 | 3.4965145 | 3170 | 3.5010593 |
| 3105 | 3.4920616 | 3138 | 3.4966529 | 3171 | 3.5011962 |
| 3106 | 3.4922014 | 3139 | 3.4967913 | 3172 | 3.5013332 |
| 3107 | 3.4923413 | 3140 | 3.4969296 | 3173 | 3.5014701 |
| 3108 | 3.4924810 | 3141 | 3.4970679 | 3174 | 3.5016069 |
| 3109 | 3.4926207 | 3142 | 3.4972062 | 3175 | 3.5017437 |
| 3110 | 3.4927604 | 3143 | 3.4973444 | 3176 | 3.5018805 |
| 3111 | 3.4929000 | 3144 | 3.4974825 | 3177 | 3.5020172 |
| 3112 | 3.4930396 | 3145 | 3.4976206 | 3178 | 3.5021539 |
| 3113 | 3.4931791 | 3146 | 3.4977587 | 3179 | 3.5022905 |
| 3114 | 3.4933186 | 3147 | 3.4978967 | 3180 | 3.5024271 |
| 3115 | 3.4934580 | 3148 | 3.4980347 | 3181 | 3.5025637 |
| 3116 | 3.4935974 | 3149 | 3.4981727 | 3182 | 3.5027002 |
| 3117 | 3.4937368 | 3150 | 3.4983106 | 3183 | 3.5028366 |
| 3118 | 3.4938761 | 3151 | 3.4984484 | 3184 | 3.5029731 |
| 3119 | 3.4940154 | 3152 | 3.4985862 | 3185 | 3.5031094 |
| 3120 | 3.4941546 | 3153 | 3.4987240 | 3186 | 3.5032458 |
| 3121 | 3.4942938 | 3154 | 3.4988617 | 3187 | 3.5033821 |
| 3122 | 3.4944329 | 3155 | 3.4989994 | 3188 | 3.5035183 |
| 3123 | 3.4945720 | 3156 | 3.4991370 | 3189 | 3.5036545 |
| 3124 | 3.4947110 | 3157 | 3.4992746 | 3190 | 3.5037907 |
| 3125 | 3.4948500 | 3158 | 3.4994121 | 3191 | 3.5039268 |
| 3126 | 3.4949890 | 3159 | 3.4995496 | 3192 | 3.5040629 |
| 3127 | 3.4951279 | 3160 | 3.4996871 | 3193 | 3.5041989 |
| 3128 | 3.4952667 | 3161 | 3.4998245 | 3194 | 3.5043349 |
| 3129 | 3.4954056 | 3162 | 3.4999619 | 3195 | 3.5044709 |
| 3130 | 3.4955443 | 3163 | 3.5000992 | 3196 | 3.5046068 |
| 3131 | 3.4956831 | 3164 | 3.5002365 | 3197 | 3.5047426 |
| 3132 | 3.4958218 | 3165 | 3.5003737 | 3198 | 3.5048785 |
| 3133 | 3.4959604 | 3166 | 3.5005109 | 3199 | 3.5050142 |
| 3134 | 3.4960990 | 3167 | 3.5006481 | 3200 | 3.5051500 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3201 | 3.5052857 | 3234 | 3.5097400 | 3267 | 3.5141491 |
| 3202 | 3.5054213 | 3235 | 3.5098743 | 3268 | 3.5142820 |
| 3203 | 3.5055569 | 3236 | 3.5100085 | 3269 | 3.5144149 |
| 3204 | 3.5056925 | 3237 | 3.5101427 | 3270 | 3.5145478 |
| 3205 | 3.5058280 | 3238 | 3.5102768 | 3271 | 3.5146805 |
| 3206 | 3.5059635 | 3239 | 3.5104109 | 3272 | 3.5148133 |
| 3207 | 3.5060990 | 3240 | 3.5105450 | 3273 | 3.5149460 |
| 3208 | 3.5062344 | 3241 | 3.5106790 | 3274 | 3.5150787 |
| 3209 | 3.5063697 | 3242 | 3.5108130 | 3275 | 3.5152113 |
| 3210 | 3.5065050 | 3243 | 3.5109469 | 3276 | 3.5153439 |
| 3211 | 3.5066403 | 3244 | 3.5110808 | 3277 | 3.5154764 |
| 3212 | 3.5067755 | 3245 | 3.5112147 | 3278 | 3.5156089 |
| 3213 | 3.5069107 | 3246 | 3.5113485 | 3279 | 3.5157414 |
| 3214 | 3.5070459 | 3247 | 3.5114823 | 3280 | 3.5158738 |
| 3215 | 3.5071810 | 3248 | 3.5116160 | 3281 | 3.5160062 |
| 3216 | 3.5073160 | 3249 | 3.5117497 | 3282 | 3.5161386 |
| 3217 | 3.5074511 | 3250 | 3.5118834 | 3283 | 3.5162709 |
| 3218 | 3.5075860 | 3251 | 3.5120170 | 3284 | 3.5164032 |
| 3219 | 3.5077210 | 3252 | 3.5121505 | 3285 | 3.5165354 |
| 3220 | 3.5078559 | 3253 | 3.5122841 | 3286 | 3.5166676 |
| 3221 | 3.5079907 | 3254 | 3.5124175 | 3287 | 3.5167997 |
| 3222 | 3.5081255 | 3255 | 3.5125510 | 3288 | 3.5169318 |
| 3223 | 3.5082603 | 3256 | 3.5126844 | 3289 | 3.5170639 |
| 3224 | 3.5083950 | 3257 | 3.5128178 | 3290 | 3.5171959 |
| 3225 | 3.5085297 | 3258 | 3.5129511 | 3291 | 3.5173279 |
| 3226 | 3.5086644 | 3259 | 3.5130844 | 3292 | 3.5174598 |
| 3227 | 3.5087990 | 3260 | 3.5132176 | 3293 | 3.5175917 |
| 3228 | 3.5089335 | 3261 | 3.5133508 | 3294 | 3.5177236 |
| 3229 | 3.5090680 | 3262 | 3.5134840 | 3295 | 3.5178554 |
| 3230 | 3.5092025 | 3263 | 3.5136171 | 3296 | 3.5179872 |
| 3231 | 3.5093370 | 3264 | 3.5137501 | 3297 | 3.5181189 |
| 3232 | 3.5094713 | 3265 | 3.5138832 | 3298 | 3.5182506 |
| 3233 | 3.5096057 | 3266 | 3.5140162 | 3299 | 3.5183823 |
| 3234 | 3.5097400 | 3267 | 3.5141491 | 3300 | 3.5185139 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3301 | 3.5186455 | 3334 | 3.5229656 | 3367 | 3.5272431 |
| 3302 | 3.5187771 | 3335 | 3.5230958 | 3368 | 3.5273721 |
| 3303 | 3.5189086 | 3336 | 3.5232260 | 3369 | 3.5275010 |
| 3304 | 3.5190400 | 3337 | 3.5233562 | 3370 | 3.5276299 |
| 3305 | 3.5191715 | 3338 | 3.5234863 | 3371 | 3.5277588 |
| 3306 | 3.5193028 | 3339 | 3.5236164 | 3372 | 3.5278876 |
| 3307 | 3.5194342 | 3340 | 3.5237465 | 3373 | 3.5280163 |
| 3308 | 3.5195655 | 3341 | 3.5238765 | 3374 | 3.5281451 |
| 3309 | 3.5196968 | 3342 | 3.5240064 | 3375 | 3.5282738 |
| 3310 | 3.5198280 | 3343 | 3.5241364 | 3376 | 3.5284024 |
| 3311 | 3.5199592 | 3344 | 3.5242663 | 3377 | 3.5285311 |
| 3312 | 3.5200903 | 3345 | 3.5243961 | 3378 | 3.5286596 |
| 3313 | 3.5202214 | 3346 | 3.5245259 | 3379 | 3.5287882 |
| 3314 | 3.5203525 | 3347 | 3.5246557 | 3380 | 3.5289167 |
| 3315 | 3.5204835 | 3348 | 3.5247854 | 3381 | 3.5290452 |
| 3316 | 3.5206145 | 3349 | 3.5249151 | 3382 | 3.5291736 |
| 3317 | 3.5207455 | 3350 | 3.5250448 | 3383 | 3.5293020 |
| 3318 | 3.5208764 | 3351 | 3.5251744 | 3384 | 3.5294304 |
| 3319 | 3.5210073 | 3352 | 3.5253040 | 3385 | 3.5295587 |
| 3320 | 3.5211381 | 3353 | 3.5254336 | 3386 | 3.5296870 |
| 3321 | 3.5212689 | 3354 | 3.5255631 | 3387 | 3.5298152 |
| 3322 | 3.5213996 | 3355 | 3.5256925 | 3388 | 3.5299434 |
| 3323 | 3.5215303 | 3356 | 3.5258219 | 3389 | 3.5300716 |
| 3324 | 3.5216610 | 3357 | 3.5259513 | 3390 | 3.5301997 |
| 3325 | 3.5217916 | 3358 | 3.5260807 | 3391 | 3.5303278 |
| 3326 | 3.5219222 | 3359 | 3.5262100 | 3392 | 3.5304558 |
| 3327 | 3.5220528 | 3360 | 3.5263393 | 3393 | 3.5305839 |
| 3328 | 3.5221833 | 3361 | 3.5264685 | 3394 | 3.5307118 |
| 3329 | 3.5223138 | 3362 | 3.5265977 | 3395 | 3.5308398 |
| 3330 | 3.5224442 | 3363 | 3.5267269 | 3396 | 3.5309677 |
| 3331 | 3.5225746 | 3364 | 3.5268560 | 3397 | 3.5310955 |
| 3332 | 3.5227050 | 3365 | 3.5269851 | 3398 | 3.5312234 |
| 3333 | 3.5228353 | 3366 | 3.5271141 | 3399 | 3.5313512 |
| 3334 | 3.5229656 | 3367 | 3.5272431 | 3400 | 3.5314789 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3401 | 3.5316066 | 3434 | 3.5358003 | 3467 | 3.5399538 |
| 3402 | 3.5317343 | 3435 | 3.5359267 | 3468 | 3.5400791 |
| 3403 | 3.5318619 | 3436 | 3.5360532 | 3469 | 3.5402043 |
| 3404 | 3.5319895 | 3437 | 3.5361795 | 3470 | 3.5403295 |
| 3405 | 3.5321171 | 3438 | 3.5363059 | 3471 | 3.5404546 |
| 3406 | 3.5322446 | 3439 | 3.5364322 | 3472 | 3.5405797 |
| 3407 | 3.5323721 | 3440 | 3.5365584 | 3473 | 3.5407048 |
| 3408 | 3.5324996 | 3441 | 3.5366847 | 3474 | 3.5408298 |
| 3409 | 3.5326270 | 3442 | 3.5368109 | 3475 | 3.5409548 |
| 3410 | 3.5327544 | 3443 | 3.5369370 | 3476 | 3.5410798 |
| 3411 | 3.5328817 | 3444 | 3.5370631 | 3477 | 3.5412047 |
| 3412 | 3.5330090 | 3445 | 3.5371892 | 3478 | 3.5413296 |
| 3413 | 3.5331363 | 3446 | 3.5373153 | 3479 | 3.5414544 |
| 3414 | 3.5332635 | 3447 | 3.5374413 | 3480 | 3.5415792 |
| 3415 | 3.5333907 | 3448 | 3.5375673 | 3481 | 3.5417040 |
| 3416 | 3.5335179 | 3449 | 3.5376932 | 3482 | 3.5418288 |
| 3417 | 3.5336450 | 3450 | 3.5378191 | 3483 | 3.5419535 |
| 3418 | 3.5337721 | 3451 | 3.5379450 | 3484 | 3.5420781 |
| 3419 | 3.5338991 | 3452 | 3.5380708 | 3485 | 3.5422028 |
| 3420 | 3.5340261 | 3453 | 3.5381966 | 3486 | 3.5423274 |
| 3421 | 3.5341531 | 3454 | 3.5383223 | 3487 | 3.5424519 |
| 3422 | 3.5342800 | 3455 | 3.5384481 | 3488 | 3.5425765 |
| 3423 | 3.5344069 | 3456 | 3.5385737 | 3489 | 3.5427010 |
| 3424 | 3.5345338 | 3457 | 3.5386994 | 3490 | 3.5428254 |
| 3425 | 3.5346606 | 3458 | 3.5388250 | 3491 | 3.5429498 |
| 3426 | 3.5347874 | 3459 | 3.5389506 | 3492 | 3.5430742 |
| 3427 | 3.5349141 | 3460 | 3.5390761 | 3493 | 3.5431986 |
| 3428 | 3.5350408 | 3461 | 3.5392016 | 3494 | 3.5433229 |
| 3429 | 3.5351675 | 3462 | 3.5393271 | 3495 | 3.5434472 |
| 3430 | 3.5352941 | 3463 | 3.5394525 | 3496 | 3.5435714 |
| 3431 | 3.5354207 | 3464 | 3.5395779 | 3497 | 3.5436956 |
| 3432 | 3.5355473 | 3465 | 3.5397032 | 3498 | 3.5438198 |
| 3433 | 3.5356738 | 3466 | 3.5398286 | 3499 | 3.5439439 |
| 3434 | 3.5358003 | 3467 | 3.5399538 | 3500 | 3.5440680 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 501 | 3.5441921 | 3534 | 3.5482665 | 3567 | 3.5523031 |
| 502 | 3.5443161 | 3535 | 3.5483894 | 3568 | 3.5524248 |
| 503 | 3.5444401 | 3536 | 3.5485123 | 3569 | 3.5525465 |
| 504 | 3.5445641 | 3537 | 3.5486351 | 3570 | 3.5526682 |
| 505 | 3.5446880 | 3538 | 3.5487578 | 3571 | 3.5527898 |
| 506 | 3.5448119 | 3539 | 3.5488806 | 3572 | 3.5529114 |
| 507 | 3.5449358 | 3540 | 3.5490033 | 3573 | 3.5530330 |
| 508 | 3.5450596 | 3541 | 3.5491259 | 3574 | 3.5531545 |
| 509 | 3.5451834 | 3542 | 3.5492486 | 3575 | 3.5532760 |
| 510 | 3.5453071 | 3543 | 3.5493712 | 3576 | 3.5533975 |
| 511 | 3.5454308 | 3544 | 3.5494937 | 3577 | 3.5535189 |
| 512 | 3.5455545 | 3545 | 3.5496162 | 3578 | 3.5536403 |
| 513 | 3.5456781 | 3546 | 3.5497387 | 3579 | 3.5537617 |
| 514 | 3.5458018 | 3547 | 3.5498612 | 3580 | 3.5538830 |
| 515 | 3.5459253 | 3548 | 3.5499836 | 3581 | 3.5540043 |
| 516 | 3.5460489 | 3549 | 3.5501060 | 3582 | 3.5541256 |
| 517 | 3.5461724 | 3550 | 3.5502284 | 3583 | 3.5542468 |
| 518 | 3.5462958 | 3551 | 3.5503507 | 3584 | 3.5543680 |
| 519 | 3.5464193 | 3552 | 3.5504730 | 3585 | 3.5544892 |
| 520 | 3.5465427 | 3553 | 3.5505952 | 3586 | 3.5546103 |
| 521 | 3.5466660 | 3554 | 3.5507174 | 3587 | 3.5547314 |
| 522 | 3.5467894 | 3555 | 3.5508396 | 3588 | 3.5548524 |
| 523 | 3.5469126 | 3556 | 3.5509618 | 3589 | 3.5549735 |
| 524 | 3.5470359 | 3557 | 3.5510839 | 3590 | 3.5550944 |
| 525 | 3.5471591 | 3558 | 3.5512059 | 3591 | 3.5552154 |
| 526 | 3.5472823 | 3559 | 3.5513280 | 3592 | 3.5553363 |
| 527 | 3.5474055 | 3560 | 3.5514500 | 3593 | 3.5554572 |
| 528 | 3.5475286 | 3561 | 3.5515720 | 3594 | 3.5555781 |
| 529 | 3.5476517 | 3562 | 3.5516939 | 3595 | 3.5556989 |
| 530 | 3.5477747 | 3563 | 3.5518158 | 3596 | 3.5558197 |
| 531 | 3.5478977 | 3564 | 3.5519377 | 3597 | 3.5559404 |
| 532 | 3.5480207 | 3565 | 3.5520595 | 3598 | 3.5560612 |
| 533 | 3.5481436 | 3566 | 3.5521813 | 3599 | 3.5561818 |
| 534 | 3.5482665 | 3567 | 3.5523031 | 3600 | 3.5563025 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3601 | 3.5564231 | 3634 | 3.5603849 | 3667 | 3.5643109 |
| 3602 | 3.5565437 | 3635 | 3.5605044 | 3668 | 3.5644293 |
| 3603 | 3.5566643 | 3636 | 3.5606239 | 3669 | 3.5645477 |
| 3604 | 3.5567848 | 3637 | 3.5607433 | 3670 | 3.5646661 |
| 3605 | 3.5569053 | 3638 | 3.5608627 | 3671 | 3.5647844 |
| 3606 | 3.5570257 | 3639 | 3.5609821 | 3672 | 3.5649027 |
| 3607 | 3.5571461 | 3640 | 3.5611014 | 3673 | 3.5650209 |
| 3608 | 3.5572665 | 3641 | 3.5612207 | 3674 | 3.5651392 |
| 3609 | 3.5573869 | 3642 | 3.5613399 | 3675 | 3.5652573 |
| 3610 | 3.5575072 | 3643 | 3.5614592 | 3676 | 3.5653755 |
| 3611 | 3.5576275 | 3644 | 3.5615784 | 3677 | 3.5654936 |
| 3612 | 3.5577477 | 3645 | 3.5616975 | 3678 | 3.5656117 |
| 3613 | 3.5578680 | 3646 | 3.5618167 | 3679 | 3.5657298 |
| 3614 | 3.5579881 | 3647 | 3.5619358 | 3680 | 3.5658478 |
| 3615 | 3.5581083 | 3648 | 3.5620548 | 3681 | 3.5659658 |
| 3616 | 3.5582284 | 3649 | 3.5621739 | 3682 | 3.5660838 |
| 3617 | 3.5583485 | 3650 | 3.5622929 | 3683 | 3.5662017 |
| 3618 | 3.5584686 | 3651 | 3.5624118 | 3684 | 3.5663196 |
| 3619 | 3.5585886 | 3652 | 3.5625308 | 3685 | 3.5664375 |
| 3620 | 3.5587086 | 3653 | 3.5626497 | 3686 | 3.5665553 |
| 3621 | 3.5588285 | 3654 | 3.5627685 | 3687 | 3.5666731 |
| 3622 | 3.5589484 | 3655 | 3.5628874 | 3688 | 3.5667909 |
| 3623 | 3.5590683 | 3656 | 3.5630062 | 3689 | 3.5669087 |
| 3624 | 3.5591882 | 3657 | 3.5631250 | 3690 | 3.5670264 |
| 3625 | 3.5593080 | 3658 | 3.5632437 | 3691 | 3.5671440 |
| 3626 | 3.5594278 | 3659 | 3.5633624 | 3692 | 3.5672617 |
| 3627 | 3.5595476 | 3660 | 3.5634811 | 3693 | 3.5673793 |
| 3628 | 3.5596673 | 3661 | 3.5635997 | 3694 | 3.5674969 |
| 3629 | 3.5597870 | 3662 | 3.5637183 | 3695 | 3.5676144 |
| 3630 | 3.5599066 | 3663 | 3.5638369 | 3696 | 3.5677320 |
| 3631 | 3.5600262 | 3664 | 3.5639555 | 3697 | 3.5678494 |
| 3632 | 3.5601458 | 3665 | 3.5640740 | 3698 | 3.5679669 |
| 3633 | 3.5602654 | 3666 | 3.5641925 | 3699 | 3.5680843 |
| 3634 | 3.5603849 | 3667 | 3.5643109 | 3700 | 3.5682017 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3701 | 3.5683191 | 3734 | 3.5721743 | 3767 | 3.5759956 |
| 3702 | 3.5684364 | 3735 | 3.5722906 | 3768 | 3.5761109 |
| 3703 | 3.5685537 | 3736 | 3.5724069 | 3769 | 3.5762261 |
| 3704 | 3.5686710 | 3737 | 3.5725231 | 3770 | 3.5763413 |
| 3705 | 3.5687882 | 3738 | 3.5726393 | 3771 | 3.5764565 |
| 3706 | 3.5689054 | 3739 | 3.5727555 | 3772 | 3.5765717 |
| 3707 | 3.5690226 | 3740 | 3.5728716 | 3773 | 3.5766868 |
| 3708 | 3.5691397 | 3741 | 3.5729877 | 3774 | 3.5768019 |
| 3709 | 3.5692568 | 3742 | 3.5731038 | 3775 | 3.5769170 |
| 3710 | 3.5693739 | 3743 | 3.5732198 | 3776 | 3.5770320 |
| 3711 | 3.5694910 | 3744 | 3.5733358 | 3777 | 3.5771470 |
| 3712 | 3.5696080 | 3745 | 3.5734518 | 3778 | 3.5772620 |
| 3713 | 3.5697249 | 3746 | 3.5735678 | 3779 | 3.5773769 |
| 3714 | 3.5698419 | 3747 | 3.5736837 | 3780 | 3.5774918 |
| 3715 | 3.5699588 | 3748 | 3.5737996 | 3781 | 3.5776067 |
| 3716 | 3.5700757 | 3749 | 3.5739154 | 3782 | 3.5777215 |
| 3717 | 3.5701926 | 3750 | 3.5740313 | 3783 | 3.5778363 |
| 3718 | 3.5703094 | 3751 | 3.5741471 | 3784 | 3.5779511 |
| 3719 | 3.5704262 | 3752 | 3.5742628 | 3785 | 3.5780659 |
| 3720 | 3.5705429 | 3753 | 3.5743786 | 3786 | 3.5781806 |
| 3721 | 3.5706597 | 3754 | 3.5744943 | 3787 | 3.5782953 |
| 3722 | 3.5707764 | 3755 | 3.5746099 | 3788 | 3.5784100 |
| 3723 | 3.5708930 | 3756 | 3.5747256 | 3789 | 3.5785246 |
| 3724 | 3.5710097 | 3757 | 3.5748412 | 3790 | 3.5786392 |
| 3725 | 3.5711263 | 3758 | 3.5749568 | 3791 | 3.5787538 |
| 3726 | 3.5712428 | 3759 | 3.5750723 | 3792 | 3.5788683 |
| 3727 | 3.5713594 | 3760 | 3.5751878 | 3793 | 3.5789828 |
| 3728 | 3.5714759 | 3761 | 3.5753033 | 3794 | 3.5790973 |
| 3729 | 3.5715924 | 3762 | 3.5754188 | 3795 | 3.5792118 |
| 3730 | 3.5717088 | 3763 | 3.5755342 | 3796 | 3.5793262 |
| 3731 | 3.5718252 | 3764 | 3.5756496 | 3797 | 3.5794406 |
| 3732 | 3.5719416 | 3765 | 3.5757650 | 3798 | 3.5795550 |
| 3733 | 3.5720580 | 3766 | 3.5758803 | 3799 | 3.5796693 |
| 3734 | 3.5721743 | 3767 | 3.5759956 | 3800 | 3.5797836 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3801 | 3.5798979 | 3834 | 3.5836521 | 3867 | 3.5873742 |
| 3802 | 3.5800121 | 3835 | 3.5837654 | 3868 | 3.5874865 |
| 3803 | 3.5801263 | 3836 | 3.5838786 | 3869 | 3.5875987 |
| 3804 | 3.5802405 | 3837 | 3.5839918 | 3870 | 3.5877110 |
| 3805 | 3.5803547 | 3838 | 3.5841050 | 3871 | 3.5878232 |
| 3806 | 3.5804688 | 3839 | 3.5842181 | 3872 | 3.5879353 |
| 3807 | 3.5805829 | 3840 | 3.5843312 | 3873 | 3.5880475 |
| 3808 | 3.5806969 | 3841 | 3.5844443 | 3874 | 3.5881596 |
| 3809 | 3.5808110 | 3842 | 3.5845574 | 3875 | 3.5882717 |
| 3810 | 3.5809250 | 3843 | 3.5846704 | 3876 | 3.5883838 |
| 3811 | 3.5810389 | 3844 | 3.5847834 | 3877 | 3.5884958 |
| 3812 | 3.5811529 | 3845 | 3.5848963 | 3878 | 3.5886078 |
| 3815 | 3.5812668 | 3846 | 3.5850093 | 3879 | 3.5887198 |
| 3814 | 3.5813807 | 3847 | 3.5851222 | 3880 | 3.5888317 |
| 3815 | 3.5814945 | 3848 | 3.5852351 | 3881 | 3.5889436 |
| 3816 | 3.5816084 | 3849 | 3.5853479 | 3882 | 3.5890555 |
| 3817 | 3.5817222 | 3850 | 3.5854607 | 3883 | 3.5891674 |
| 3818 | 3.5818359 | 3851 | 3.5855735 | 3884 | 3.5892792 |
| 3819 | 3.5819497 | 3852 | 3.5856863 | 3885 | 3.5893910 |
| 3820 | 3.5820634 | 3853 | 3.5857990 | 3886 | 3.5895028 |
| 3821 | 3.5821770 | 3854 | 3.5859117 | 3887 | 3.5896145 |
| 3822 | 3.5822907 | 3855 | 3.5860244 | 3888 | 3.5897263 |
| 3823 | 3.5824043 | 3856 | 3.5861370 | 3889 | 3.5898379 |
| 3824 | 3.5825179 | 3857 | 3.5862496 | 3890 | 3.5899496 |
| 3825 | 3.5826314 | 3858 | 3.5863622 | 3891 | 3.5900612 |
| 3826 | 3.5827450 | 3859 | 3.5864748 | 3892 | 3.5901728 |
| 3827 | 3.5828585 | 3860 | 3.5865873 | 3893 | 3.5902844 |
| 3828 | 3.5829719 | 3861 | 3.5866998 | 3894 | 3.5903959 |
| 3829 | 3.5830854 | 3862 | 3.5868123 | 3895 | 3.5905075 |
| 3830 | 3.5831988 | 3863 | 3.5869247 | 3896 | 3.5906189 |
| 3831 | 3.5833122 | 3864 | 3.5870371 | 3897 | 3.5907304 |
| 3832 | 3.5834255 | 3865 | 3.5871495 | 3898 | 3.5908418 |
| 3833 | 3.5835388 | 3866 | 3.5872618 | 3899 | 3.5909533 |
| 3834 | 3.5836521 | 3867 | 3.5873742 | 3900 | 3.5910647 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 3901 | 3.5911759 | 3934 | 3.5948344 | 3967 | 3.5984622 |
| 3902 | 3.5912873 | 3935 | 3.5949447 | 3968 | 3.5985717 |
| 3903 | 3.5913986 | 3936 | 3.5950551 | 3969 | 3.5986811 |
| 3904 | 3.5915098 | 3937 | 3.5951654 | 3970 | 3.5987905 |
| 3905 | 3.5916210 | 3938 | 3.5952757 | 3971 | 3.5988999 |
| 3906 | 3.5917322 | 3939 | 3.5953860 | 3972 | 3.5990092 |
| 3907 | 3.5918434 | 3940 | 3.5954962 | 3973 | 3.5991186 |
| 3908 | 3.5919546 | 3941 | 3.5956064 | 3974 | 3.5992279 |
| 3909 | 3.5920657 | 3942 | 3.5957166 | 3975 | 3.5993371 |
| 3910 | 3.5921768 | 3943 | 3.5958268 | 3976 | 3.5994464 |
| 3911 | 3.5922878 | 3944 | 3.5959369 | 3977 | 3.5995556 |
| 3912 | 3.5923988 | 3945 | 3.5960470 | 3978 | 3.5996648 |
| 3913 | 3.5925098 | 3946 | 3.5961571 | 3979 | 3.5997739 |
| 3914 | 3.5926208 | 3947 | 3.5962671 | 3980 | 3.5998831 |
| 3915 | 3.5927318 | 3948 | 3.5963771 | 3981 | 3.5999922 |
| 3916 | 3.5928427 | 3949 | 3.5964871 | 3982 | 3.6001013 |
| 3917 | 3.5929536 | 3950 | 3.5965971 | 3983 | 3.6002103 |
| 3918 | 3.5930644 | 3951 | 3.5967070 | 3984 | 3.6003193 |
| 3919 | 3.5931753 | 3952 | 3.5968169 | 3985 | 3.6004283 |
| 3920 | 3.5932861 | 3953 | 3.5969268 | 3986 | 3.6005373 |
| 3921 | 3.5933968 | 3954 | 3.5970367 | 3987 | 3.6006462 |
| 3922 | 3.5935076 | 3955 | 3.5971465 | 3988 | 3.6007551 |
| 3923 | 3.5936183 | 3956 | 3.5972563 | 3989 | 3.6008640 |
| 3924 | 3.5937290 | 3957 | 3.5973660 | 3990 | 3.6009729 |
| 3925 | 3.5938397 | 3958 | 3.5974758 | 3991 | 3.6010817 |
| 3926 | 3.5939503 | 3959 | 3.5975855 | 3992 | 3.6011905 |
| 3927 | 3.5940609 | 3960 | 3.5976952 | 3993 | 3.6012993 |
| 3928 | 3.5941715 | 3961 | 3.5978048 | 3994 | 3.6014081 |
| 3929 | 3.5942820 | 3962 | 3.5979145 | 3995 | 3.6015168 |
| 3930 | 3.5943925 | 3963 | 3.5980241 | 3996 | 3.6016255 |
| 3931 | 3.5945030 | 3964 | 3.5981336 | 3997 | 3.6017341 |
| 3932 | 3.5946135 | 3965 | 3.5982432 | 3998 | 3.6018428 |
| 3933 | 3.5947239 | 3966 | 3.5983527 | 3999 | 3.6019514 |
| 3934 | 3.5948344 | 3967 | 3.5984622 | 4000 | 3.6020600 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4001 | 3.6021685 | 4034 | 3.6057359 | 4067 | 3.6092742 |
| 4002 | 3.6022771 | 4035 | 3.6058435 | 4068 | 3.6093809 |
| 4003 | 3.6023856 | 4036 | 3.6059512 | 4069 | 3.6094877 |
| 4004 | 3.6024941 | 4037 | 3.6060587 | 4070 | 3.6095944 |
| 4005 | 3.6026025 | 4038 | 3.6061663 | 4071 | 3.6097011 |
| 4006 | 3.6027109 | 4039 | 3.6062739 | 4072 | 3.6098078 |
| 4007 | 3.6028193 | 4040 | 3.6063814 | 4073 | 3.6099144 |
| 4008 | 3.6029277 | 4041 | 3.6064888 | 4074 | 3.6100210 |
| 4009 | 3.6030361 | 4042 | 3.6065963 | 4075 | 3.6101276 |
| 4010 | 3.6031444 | 4043 | 3.6067037 | 4076 | 3.6102342 |
| 4011 | 3.6032527 | 4044 | 3.6068111 | 4077 | 3.6103407 |
| 4012 | 3.6033609 | 4045 | 3.6069185 | 4078 | 3.6104472 |
| 4013 | 3.6034692 | 4046 | 3.6070259 | 4079 | 3.6105537 |
| 4014 | 3.6035774 | 4047 | 3.6071332 | 4080 | 3.6106602 |
| 4015 | 3.6036855 | 4048 | 3.6072405 | 4081 | 3.6107666 |
| 4016 | 3.6037937 | 4049 | 3.6073478 | 4082 | 3.6108730 |
| 4017 | 3.6039018 | 4050 | 3.6074550 | 4083 | 3.6109794 |
| 4018 | 3.6040099 | 4051 | 3.6075622 | 4084 | 3.6110857 |
| 4019 | 3.6041180 | 4052 | 3.6076694 | 4085 | 3.6111921 |
| 4020 | 3.6042261 | 4053 | 3.6077766 | 4086 | 3.6112984 |
| 4021 | 3.6043341 | 4054 | 3.6078837 | 4087 | 3.6114046 |
| 4022 | 3.6044421 | 4055 | 3.6079909 | 4088 | 3.6115109 |
| 4023 | 3.6045500 | 4056 | 3.6080979 | 4089 | 3.6116171 |
| 4024 | 3.6046580 | 4057 | 3.6082050 | 4090 | 3.6117233 |
| 4025 | 3.6047659 | 4058 | 3.6083120 | 4091 | 3.6118295 |
| 4026 | 3.6048738 | 4059 | 3.6084190 | 4092 | 3.6119356 |
| 4027 | 3.6049816 | 4060 | 3.6085260 | 4093 | 3.6120417 |
| 4028 | 3.6050895 | 4061 | 3.6086330 | 4094 | 3.6121478 |
| 4029 | 3.6051973 | 4062 | 3.6087399 | 4095 | 3.6122539 |
| 4030 | 3.6053050 | 4063 | 3.6088468 | 4096 | 3.6123599 |
| 4031 | 3.6054128 | 4064 | 3.6089537 | 4097 | 3.6124660 |
| 4032 | 3.6055205 | 4065 | 3.6090605 | 4098 | 3.6125720 |
| 4033 | 3.6056282 | 4066 | 3.6091674 | 4099 | 3.6126779 |
| 4034 | 3.6057359 | 4067 | 3.6092742 | 4100 | 3.6127839 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4101 | 3.6128898 | 4134 | 3.6163705 | 4167 | 3.6198235 |
| 4102 | 3.6129957 | 4135 | 3.6164755 | 4168 | 3.6199277 |
| 4103 | 3.6131015 | 4136 | 3.6165805 | 4169 | 3.6200319 |
| 4104 | 3.6132073 | 4137 | 3.6166855 | 4170 | 3.6201361 |
| 4105 | 3.6133132 | 4138 | 3.6167905 | 4171 | 3.6202402 |
| 4106 | 3.6134189 | 4139 | 3.6168954 | 4172 | 3.6203443 |
| 4107 | 3.6135247 | 4140 | 3.6170003 | 4173 | 3.6204484 |
| 4108 | 3.6136304 | 4141 | 3.6171052 | 4174 | 3.6205524 |
| 4109 | 3.6137361 | 4142 | 3.6172101 | 4175 | 3.6206565 |
| 4110 | 3.6138418 | 4143 | 3.6173149 | 4176 | 3.6207605 |
| 4111 | 3.6139475 | 4144 | 3.6174197 | 4177 | 3.6208645 |
| 4112 | 3.6140531 | 4145 | 3.6175245 | 4178 | 3.6209684 |
| 4113 | 3.6141587 | 4146 | 3.6176293 | 4179 | 3.6210724 |
| 4114 | 3.6142643 | 4147 | 3.6177340 | 4180 | 3.6211763 |
| 4115 | 3.6143698 | 4148 | 3.6178387 | 4181 | 3.6212802 |
| 4116 | 3.6144754 | 4149 | 3.6179434 | 4182 | 3.6213840 |
| 4117 | 3.6145809 | 4150 | 3.6180481 | 4183 | 3.6214879 |
| 4118 | 3.6146863 | 4151 | 3.6181527 | 4184 | 3.6215917 |
| 4119 | 3.6147918 | 4152 | 3.6182573 | 4185 | 3.6216955 |
| 4120 | 3.6148972 | 4153 | 3.6183619 | 4186 | 3.6217992 |
| 4121 | 3.6150026 | 4154 | 3.6184665 | 4187 | 3.6219030 |
| 4122 | 3.6151080 | 4155 | 3.6185710 | 4188 | 3.6220067 |
| 4123 | 3.6152133 | 4156 | 3.6186755 | 4189 | 3.6221104 |
| 4124 | 3.6153187 | 4157 | 3.6187800 | 4190 | 3.6222140 |
| 4125 | 3.6154240 | 4158 | 3.6188845 | 4191 | 3.6223177 |
| 4126 | 3.6155292 | 4159 | 3.6189889 | 4192 | 3.6224213 |
| 4127 | 3.6156345 | 4160 | 3.6190933 | 4193 | 3.6225249 |
| 4128 | 3.6157397 | 4161 | 3.6191977 | 4194 | 3.6226284 |
| 4129 | 3.6158449 | 4162 | 3.6193021 | 4195 | 3.6227320 |
| 4130 | 3.6159501 | 4163 | 3.6194064 | 4196 | 3.6228355 |
| 4131 | 3.6160552 | 4164 | 3.6195107 | 4197 | 3.6229390 |
| 4132 | 3.6161603 | 4165 | 3.6196150 | 4198 | 3.6230424 |
| 4133 | 3.6162654 | 4166 | 3.6197193 | 4199 | 3.6231459 |
| 4134 | 3.6163705 | 4167 | 3.6198235 | 4200 | 3.6232493 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4201 | 3.6233527 | 4234 | 3.6267509 | 4267 | 3.6301226 |
| 4202 | 3.6234560 | 4235 | 3.6268534 | 4268 | 3.6302244 |
| 4203 | 3.6235594 | 4236 | 3.6269559 | 4269 | 3.6303262 |
| 4204 | 3.6236627 | 4237 | 3.6270585 | 4270 | 3.6304279 |
| 4205 | 3.6237660 | 4238 | 3.6271610 | 4271 | 3.6305296 |
| 4206 | 3.6238693 | 4239 | 3.6272634 | 4272 | 3.6306312 |
| 4207 | 3.6239725 | 4240 | 3.6273659 | 4273 | 3.6307329 |
| 4208 | 3.6240757 | 4241 | 3.6274683 | 4274 | 3.6308345 |
| 4209 | 3.6241789 | 4242 | 3.6275707 | 4275 | 3.6309361 |
| 4210 | 3.6242821 | 4243 | 3.6276730 | 4276 | 3.6310377 |
| 4211 | 3.6243852 | 4244 | 3.6277754 | 4277 | 3.6311392 |
| 4212 | 3.6244884 | 4245 | 3.6278777 | 4278 | 3.6312408 |
| 4213 | 3.6245915 | 4246 | 3.6279800 | 4279 | 3.6313423 |
| 4214 | 3.6246945 | 4247 | 3.6280823 | 4280 | 3.6314438 |
| 4215 | 3.6247976 | 4248 | 3.6281845 | 4281 | 3.6315452 |
| 4216 | 3.6249006 | 4249 | 3.6282867 | 4282 | 3.6316467 |
| 4217 | 3.6250036 | 4250 | 3.6283889 | 4283 | 3.6317481 |
| 4218 | 3.6251066 | 4251 | 3.6284911 | 4284 | 3.6318495 |
| 4219 | 3.6252095 | 4252 | 3.6285933 | 4285 | 3.6319508 |
| 4220 | 3.6253124 | 4253 | 3.6286954 | 4286 | 3.6320522 |
| 4221 | 3.6254153 | 4254 | 3.6287975 | 4287 | 3.6321535 |
| 4222 | 3.6255182 | 4255 | 3.6288996 | 4288 | 3.6322548 |
| 4223 | 3.6256211 | 4256 | 3.6290016 | 4289 | 3.6323560 |
| 4224 | 3.6257239 | 4257 | 3.6291036 | 4290 | 3.6324573 |
| 4225 | 3.6258267 | 4258 | 3.6292057 | 4291 | 3.6325585 |
| 4226 | 3.6259295 | 4259 | 3.6293076 | 4292 | 3.6326597 |
| 4227 | 3.6260322 | 4260 | 3.6294096 | 4293 | 3.6327609 |
| 4228 | 3.6261350 | 4261 | 3.6295115 | 4294 | 3.6328620 |
| 4229 | 3.6262377 | 4262 | 3.6296134 | 4295 | 3.6329632 |
| 4230 | 3.6263404 | 4263 | 3.6297153 | 4296 | 3.6330643 |
| 4231 | 3.6264430 | 4264 | 3.6298172 | 4297 | 3.6331654 |
| 4232 | 3.6265457 | 4265 | 3.6299190 | 4298 | 3.6332664 |
| 4233 | 3.6266483 | 4266 | 3.6300208 | 4299 | 3.6333674 |
| 4234 | 3.6267509 | 4267 | 3.6301226 | 4200 | 3.6334685 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4301 | 3.6335694 | 4334 | 3.6368889 | 4367 | 3.6401832 |
| 4302 | 3.6336704 | 4335 | 3.6369891 | 4368 | 3.6402826 |
| 4303 | 3.6337713 | 4336 | 3.6370893 | 4369 | 3.6403820 |
| 4304 | 3.6338723 | 4337 | 3.6371894 | 4370 | 3.6404814 |
| 4305 | 3.6339732 | 4338 | 3.6372895 | 4371 | 3.6405808 |
| 4306 | 3.6340740 | 4339 | 3.6373896 | 4372 | 3.6406802 |
| 4307 | 3.6341749 | 4340 | 3.6374897 | 4373 | 3.6407795 |
| 4308 | 3.6342757 | 4341 | 3.6375898 | 4374 | 3.6408788 |
| 4309 | 3.6343765 | 4342 | 3.6376898 | 4375 | 3.6409781 |
| 4310 | 3.6344773 | 4343 | 3.6377898 | 4376 | 3.6410773 |
| 4311 | 3.6345780 | 4344 | 3.6378898 | 4377 | 3.6411765 |
| 4312 | 3.6346788 | 4345 | 3.6379898 | 4378 | 3.6412758 |
| 4313 | 3.6347795 | 4346 | 3.6380897 | 4379 | 3.6413749 |
| 4314 | 3.6348801 | 4347 | 3.6381896 | 4380 | 3.6414741 |
| 4315 | 3.6349808 | 4348 | 3.6382895 | 4381 | 3.6415733 |
| 4316 | 3.6350814 | 4349 | 3.6383894 | 4382 | 3.6416724 |
| 4317 | 3.6351820 | 4350 | 3.6384893 | 4383 | 3.6417715 |
| 4318 | 3.6352826 | 4351 | 3.6385891 | 4384 | 3.6418705 |
| 4319 | 3.6353832 | 4352 | 3.6386889 | 4385 | 3.6419696 |
| 4320 | 3.6354837 | 4353 | 3.6387887 | 4386 | 3.6420686 |
| 4321 | 3.6355843 | 4354 | 3.6388884 | 4387 | 3.6421676 |
| 4322 | 3.6356848 | 4355 | 3.6389882 | 4388 | 3.6422666 |
| 4323 | 3.6357852 | 4356 | 3.6390879 | 4389 | 3.6423656 |
| 4324 | 3.6358857 | 4357 | 3.6391876 | 4390 | 3.6424645 |
| 4325 | 3.6359861 | 4358 | 3.6392872 | 4391 | 3.6425634 |
| 4326 | 3.6360865 | 4359 | 3.6393869 | 4392 | 3.6426623 |
| 4327 | 3.6361869 | 4360 | 3.6394865 | 4393 | 3.6427612 |
| 4328 | 3.6362872 | 4361 | 3.6395861 | 4394 | 3.6428601 |
| 4329 | 3.6363876 | 4362 | 3.6396857 | 4395 | 3.6429589 |
| 4330 | 3.6364879 | 4363 | 3.6397852 | 4396 | 3.6430577 |
| 4331 | 3.6365882 | 4364 | 3.6398847 | 4397 | 3.6431565 |
| 4332 | 3.6366884 | 4365 | 3.6399842 | 4398 | 3.6432552 |
| 4333 | 3.6367887 | 4366 | 3.6400837 | 4399 | 3.6433540 |
| 4334 | 3.6368889 | 4367 | 3.6401832 | 4400 | 3.6434527 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4401 | 3.6435514 | 4434 | 3.6467957 | 4467 | 3.6500160 |
| 4402 | 3.6436500 | 4435 | 3.6468936 | 4468 | 3.6501132 |
| 4403 | 3.6437487 | 4436 | 3.6469915 | 4469 | 3.6502104 |
| 4404 | 3.6438473 | 4437 | 3.6470894 | 4470 | 3.6503075 |
| 4405 | 3.6439459 | 4438 | 3.6471873 | 4471 | 3.6504047 |
| 4406 | 3.6440445 | 4439 | 3.6472851 | 4472 | 3.6505018 |
| 4407 | 3.6441430 | 4440 | 3.6473830 | 4473 | 3.6505989 |
| 4408 | 3.6442416 | 4441 | 3.6474808 | 4474 | 3.6506960 |
| 4409 | 3.6443401 | 4442 | 3.6475786 | 4475 | 3.6507930 |
| 4410 | 3.6444386 | 4443 | 3.6476763 | 4476 | 3.6508901 |
| 4411 | 3.6445371 | 4444 | 3.6477740 | 4477 | 3.6509871 |
| 4412 | 3.6446355 | 4445 | 3.6478718 | 4478 | 3.6510841 |
| 4413 | 3.6447339 | 4446 | 3.6479695 | 4479 | 3.6511811 |
| 4414 | 3.6448323 | 4447 | 3.6480671 | 4480 | 3.6512780 |
| 4415 | 3.6449307 | 4448 | 3.6481648 | 4481 | 3.6513749 |
| 4416 | 3.6450291 | 4449 | 3.6482624 | 4482 | 3.6514719 |
| 4417 | 3.6451274 | 4450 | 3.6483600 | 4483 | 3.6515687 |
| 4418 | 3.6452257 | 4451 | 3.6484576 | 4484 | 3.6516656 |
| 4419 | 3.6453240 | 4452 | 3.6485552 | 4485 | 3.6517624 |
| 4420 | 3.6454223 | 4453 | 3.6486527 | 4486 | 3.6518593 |
| 4421 | 3.6455205 | 4454 | 3.6487502 | 4487 | 3.6519561 |
| 4422 | 3.6456187 | 4455 | 3.6488477 | 4488 | 3.6520528 |
| 4423 | 3.6457169 | 4456 | 3.6489452 | 4489 | 3.6521496 |
| 4424 | 3.6458151 | 4457 | 3.6490426 | 4490 | 3.6522463 |
| 4425 | 3.6459133 | 4458 | 3.6491401 | 4491 | 3.6523431 |
| 4426 | 3.6460114 | 4459 | 3.6492375 | 4492 | 3.6524397 |
| 4427 | 3.6461095 | 4460 | 3.6493349 | 4493 | 3.6525364 |
| 4428 | 3.6462076 | 4461 | 3.6494322 | 4494 | 3.6526331 |
| 4429 | 3.6463057 | 4462 | 3.6495296 | 4495 | 3.6527297 |
| 4430 | 3.6464037 | 4463 | 3.6496269 | 4496 | 3.6528263 |
| 4431 | 3.6465017 | 4464 | 3.6497242 | 4497 | 3.6529229 |
| 4432 | 3.6465997 | 4465 | 3.6498215 | 4498 | 3.6530195 |
| 4433 | 3.6466977 | 4466 | 3.6499187 | 4499 | 3.6531160 |
| 4434 | 3.6467957 | 4467 | 3.6500160 | 4500 | 3.6532125 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4501 | 3.6533090 | 4534 | 3.6564815 | 4567 | 3.6596310 |
| 4502 | 3.6534055 | 4535 | 3.6565773 | 4568 | 3.6597261 |
| 4503 | 3.6535019 | 4536 | 3.6566730 | 4569 | 3.6598212 |
| 4504 | 3.6535984 | 4537 | 3.6567688 | 4570 | 3.6599162 |
| 4505 | 3.6536948 | 4538 | 3.6568645 | 4571 | 3.6600112 |
| 4506 | 3.6537912 | 4539 | 3.6569602 | 4572 | 3.6601062 |
| 4507 | 3.6538876 | 4540 | 3.6570559 | 4573 | 3.6602012 |
| 4508 | 3.6539839 | 4541 | 3.6571515 | 4574 | 3.6602962 |
| 4509 | 3.6540802 | 4542 | 3.6572471 | 4575 | 3.6603911 |
| 4510 | 3.6541765 | 4543 | 3.6573427 | 4576 | 3.6604860 |
| 4511 | 3.6542728 | 4544 | 3.6574383 | 4577 | 3.6605809 |
| 4512 | 3.6543691 | 4545 | 3.6575339 | 4578 | 3.6606758 |
| 4513 | 3.6544653 | 4546 | 3.6576294 | 4579 | 3.6607706 |
| 4514 | 3.6545616 | 4547 | 3.6577250 | 4580 | 3.6608655 |
| 4515 | 3.6546578 | 4548 | 3.6578205 | 4581 | 3.6609603 |
| 4516 | 3.6547539 | 4549 | 3.6579159 | 4582 | 3.6610551 |
| 4517 | 3.6548501 | 4550 | 3.6580114 | 4583 | 3.6611499 |
| 4518 | 3.6549462 | 4551 | 3.6581068 | 4584 | 3.6612446 |
| 4519 | 3.6550423 | 4552 | 3.6582023 | 4585 | 3.6613393 |
| 4520 | 3.6551384 | 4553 | 3.6582976 | 4586 | 3.6614340 |
| 4521 | 3.6552345 | 4554 | 3.6583930 | 4587 | 3.6615287 |
| 4522 | 3.6553306 | 4555 | 3.6584884 | 4588 | 3.6616234 |
| 4523 | 3.6554266 | 4556 | 3.6585837 | 4589 | 3.6617181 |
| 4524 | 3.6555226 | 4557 | 3.6586790 | 4590 | 3.6618127 |
| 4525 | 3.6556186 | 4558 | 3.6587743 | 4591 | 3.6619073 |
| 4526 | 3.6557145 | 4559 | 3.6588696 | 4592 | 3.6620019 |
| 4527 | 3.6558105 | 4560 | 3.6589648 | 4593 | 3.6620964 |
| 4528 | 3.6559064 | 4561 | 3.6590601 | 4594 | 3.6621910 |
| 4529 | 3.6560023 | 4562 | 3.6591553 | 4595 | 3.6622855 |
| 4530 | 3.6560982 | 4563 | 3.6592505 | 4596 | 3.6623800 |
| 4531 | 3.6561941 | 4564 | 3.6593456 | 4597 | 3.6624745 |
| 4532 | 3.6562899 | 4565 | 3.6594408 | 4598 | 3.6625690 |
| 4533 | 3.6563857 | 4566 | 3.6595359 | 4599 | 3.6626634 |
| 4534 | 3.6564815 | 4567 | 3.6596310 | 4600 | 3.6627578 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4601 | 3.6628522 | 4634 | 3.6659560 | 4667 | 3.6690378 |
| 4602 | 3.6629466 | 4635 | 3.6660497 | 4668 | 3.6691308 |
| 4603 | 3.6630410 | 4636 | 3.6661434 | 4669 | 3.6692239 |
| 4604 | 3.6631353 | 4637 | 3.6662371 | 4670 | 3.6693169 |
| 4605 | 3.6632296 | 4638 | 3.6663307 | 4671 | 3.6694099 |
| 4606 | 3.6633239 | 4639 | 3.6664244 | 4672 | 3.6695028 |
| 4607 | 3.6634182 | 4640 | 3.6665180 | 4673 | 3.6695958 |
| 4608 | 3.6635125 | 4641 | 3.6666116 | 4674 | 3.6696887 |
| 4609 | 3.6636067 | 4642 | 3.6667051 | 4675 | 3.6697816 |
| 4610 | 3.6637009 | 4643 | 3.6667987 | 4676 | 3.6698745 |
| 4611 | 3.6637951 | 4644 | 3.6668922 | 4677 | 3.6699674 |
| 4612 | 3.6638893 | 4645 | 3.6669857 | 4678 | 3.6700602 |
| 4613 | 3.6639835 | 4646 | 3.6670792 | 4679 | 3.6701530 |
| 4614 | 3.6640776 | 4647 | 3.6671727 | 4680 | 3.6702459 |
| 4615 | 3.6641717 | 4648 | 3.6672661 | 4681 | 3.6703386 |
| 4616 | 3.6642658 | 4649 | 3.6673595 | 4682 | 3.6704314 |
| 4617 | 3.6643599 | 4650 | 3.6674530 | 4683 | 3.6705242 |
| 4618 | 3.6644539 | 4651 | 3.6675463 | 4684 | 3.6706169 |
| 4619 | 3.6645480 | 4652 | 3.6676397 | 4685 | 3.6707096 |
| 4620 | 3.6646420 | 4653 | 3.6677331 | 4686 | 3.6708023 |
| 4621 | 3.6647360 | 4654 | 3.6678264 | 4687 | 3.6708950 |
| 4622 | 3.6648299 | 4655 | 3.6679197 | 4688 | 3.6709876 |
| 4623 | 3.6649239 | 4656 | 3.6680130 | 4689 | 3.6710802 |
| 4624 | 3.6650178 | 4657 | 3.6681062 | 4690 | 3.6711728 |
| 4625 | 3.6651117 | 4658 | 3.6681995 | 4691 | 3.6712654 |
| 4626 | 3.6652056 | 4659 | 3.6682927 | 4692 | 3.6713580 |
| 4627 | 3.6652995 | 4660 | 3.6683859 | 4693 | 3.6714506 |
| 4628 | 3.6653933 | 4661 | 3.6684791 | 4694 | 3.6715431 |
| 4629 | 3.6654872 | 4662 | 3.6685723 | 4695 | 3.6716356 |
| 4630 | 3.6655810 | 4663 | 3.6686654 | 4696 | 3.6717281 |
| 4631 | 3.6656748 | 4664 | 3.6687585 | 4697 | 3.6718206 |
| 4632 | 3.6657685 | 4665 | 3.6688516 | 4698 | 3.6719130 |
| 4633 | 3.6658623 | 4666 | 3.6689447 | 4699 | 3.6720054 |
| 4634 | 3.6659560 | 4667 | 3.6690378 | 4700 | 3.6720979 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4701 | 3.6721903 | 4734 | 3.6752283 | 4767 | 3.6782452 |
| 4702 | 3.6722826 | 4735 | 3.6753200 | 4768 | 3.6783362 |
| 4703 | 3.6723750 | 4736 | 3.6754117 | 4769 | 3.6784273 |
| 4704 | 3.6724673 | 4737 | 3.6755034 | 4770 | 3.6785184 |
| 4705 | 3.6725596 | 4738 | 3.6755951 | 4771 | 3.6786094 |
| 4706 | 3.6726519 | 4739 | 3.6756867 | 4772 | 3.6787004 |
| 4707 | 3.6727442 | 4740 | 3.6757783 | 4773 | 3.6787914 |
| 4708 | 3.6728365 | 4741 | 3.6758700 | 4774 | 3.6788824 |
| 4709 | 3.6729287 | 4742 | 3.6759615 | 4775 | 3.6789734 |
| 4710 | 3.6730209 | 4743 | 3.6760531 | 4776 | 3.6790643 |
| 4711 | 3.6731131 | 4744 | 3.6761447 | 4777 | 3.6791552 |
| 4712 | 3.6732053 | 4745 | 3.6762362 | 4778 | 3.6792461 |
| 4713 | 3.6732974 | 4746 | 3.6763277 | 4779 | 3.6793370 |
| 4714 | 3.6733896 | 4747 | 3.6764192 | 4780 | 3.6794279 |
| 4715 | 3.6734817 | 4748 | 3.6765107 | 4781 | 3.6795187 |
| 4716 | 3.6735738 | 4749 | 3.6766022 | 4782 | 3.6796096 |
| 4717 | 3.6736659 | 4750 | 3.6766936 | 4783 | 3.6797004 |
| 4718 | 3.6737579 | 4751 | 3.6767850 | 4784 | 3.6797912 |
| 4719 | 3.6738500 | 4752 | 3.6768764 | 4785 | 3.6798819 |
| 4720 | 3.6739420 | 4753 | 3.6769678 | 4786 | 3.6799727 |
| 4721 | 3.6740340 | 4754 | 3.6770592 | 4787 | 3.6800634 |
| 4722 | 3.6741260 | 4755 | 3.6771505 | 4788 | 3.6801541 |
| 4723 | 3.6742179 | 4756 | 3.6772418 | 4789 | 3.6802448 |
| 4724 | 3.6743099 | 4757 | 3.6773332 | 4790 | 3.6803355 |
| 4725 | 3.6744018 | 4758 | 3.6774244 | 4791 | 3.6804262 |
| 4726 | 3.6744937 | 4759 | 3.6775157 | 4792 | 3.6805168 |
| 4727 | 3.6745856 | 4760 | 3.6776069 | 4793 | 3.6806074 |
| 4728 | 3.6746775 | 4761 | 3.6776982 | 4794 | 3.6806980 |
| 4729 | 3.6747693 | 4762 | 3.6777894 | 4795 | 3.6807886 |
| 4730 | 3.6748611 | 4763 | 3.6778806 | 4796 | 3.6808792 |
| 4731 | 3.6749529 | 4764 | 3.6779718 | 4797 | 3.6809697 |
| 4732 | 3.6750447 | 4765 | 3.6780629 | 4798 | 3.6810602 |
| 4733 | 3.6751365 | 4766 | 3.6781540 | 4799 | 3.6811507 |
| 4734 | 3.6752283 | 4767 | 3.6782452 | 4800 | 3.6812412 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 4801 | 3.6813317 | 4834 | 3.6843066 | 4867 | 3.6872613 |
| 4802 | 3.6814222 | 4835 | 3.6843965 | 4868 | 3.6873506 |
| 4803 | 3.6815126 | 4836 | 3.6844863 | 4869 | 3.6874398 |
| 4804 | 3.6816030 | 4837 | 3.6845761 | 4870 | 3.6875290 |
| 4805 | 3.6816934 | 4838 | 3 6846659 | 4871 | 3.6876181 |
| 4806 | 3.6817838 | 4839 | 3.6847556 | 4872 | 3.6877073 |
| 4807 | 3.6818741 | 4840 | 3.6848454 | 4873 | 3.6877964 |
| 4808 | 3.6819645 | 4841 | 3.6849351 | 4874 | 3.6878855 |
| 4809 | 3.6820548 | 4842 | 3.6850248 | 4875 | 3.6879746 |
| 4810 | 3.6821451 | 4843 | 3.6851145 | 4876 | 3.6880637 |
| 4811 | 3.6822354 | 4844 | 3.6852041 | 4877 | 3.6881528 |
| 4812 | 3.6823256 | 4845 | 3.6852938 | 4878 | 3.6882418 |
| 4813 | 3.6824159 | 4846 | 3.6853834 | 4879 | 3.6883308 |
| 4814 | 3.6825061 | 4847 | 3.6854730 | 4880 | 3.6884198 |
| 4815 | 3.6825963 | 4848 | 3.6855626 | 4881 | 3.6885088 |
| 4816 | 3.6826865 | 4849 | 3.6856522 | 4882 | 3.6885978 |
| 4817 | 3.6827766 | 4850 | 3.6857417 | 4883 | 3.6886867 |
| 4818 | 3.6828668 | 4851 | 3.6858313 | 4884 | 3.6887756 |
| 4819 | 3.6829569 | 4852 | 3.6859208 | 4885 | 3.6888646 |
| 4820 | 3.6830470 | 4853 | 3.6860103 | 4886 | 3.6889535 |
| 4821 | 3.6831371 | 4854 | 3.6860998 | 4887 | 3.6890423 |
| 4822 | 3.6832272 | 4855 | 3.6861892 | 4888 | 3.6891312 |
| 4823 | 3.6833173 | 4856 | 3.6862787 | 4889 | 3.6892200 |
| 4824 | 3.6834073 | 4857 | 3.6863681 | 4890 | 3.6893089 |
| 4825 | 3.6834973 | 4858 | 3.6864575 | 4891 | 3.6893977 |
| 4826 | 3.6835873 | 4859 | 3.6865469 | 4892 | 3.6894864 |
| 4827 | 3.6836773 | 4860 | 3.6866363 | 4893 | 3.6895752 |
| 4828 | 3.6837673 | 4861 | 3.6867256 | 4894 | 3.6896640 |
| 4829 | 3.6838572 | 4862 | 3.6868150 | 4895 | 3.6897527 |
| 4830 | 3.6839471 | 4863 | 3.6869043 | 4896 | 3.6898414 |
| 4831 | 3.6840370 | 4864 | 3.6869936 | 4897 | 3.6899301 |
| 4832 | 3.6841269 | 4865 | 3.6870828 | 4898 | 3.6900188 |
| 4833 | 3.6842168 | 4866 | 3.6871721 | 4899 | 3.6901074 |
| 4834 | 3.6843066 | 4867 | 3.6872613 | 4900 | 3.6901961 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 2901 | 3.6902847 | 4934 | 3.6931991 | 4967 | 3.6960942 |
| 2902 | 3.6903733 | 4935 | 3.6932872 | 4968 | 3.6961816 |
| 2903 | 3.6904619 | 4936 | 3.6933752 | 4969 | 3.6962690 |
| 2904 | 3.6905505 | 4937 | 3.6934631 | 4970 | 3.6963564 |
| 2905 | 3.6906390 | 4938 | 3.6935511 | 4971 | 3.6964438 |
| 2906 | 3.6907275 | 4939 | 3.6936390 | 4972 | 3.6965311 |
| 2907 | 3.6908161 | 4940 | 3.6937269 | 4973 | 3.6966185 |
| 2908 | 3.6909046 | 4941 | 3.6938149 | 4974 | 3.6967058 |
| 2909 | 3.6909930 | 4942 | 3.6939027 | 4975 | 3.6967931 |
| 2910 | 3.6910815 | 4943 | 3.6939906 | 4976 | 3.6968804 |
| 2911 | 3.6911699 | 4944 | 3.6940785 | 4977 | 3.6969676 |
| 2912 | 3.6912584 | 4945 | 3.6941663 | 4978 | 3.6970549 |
| 2913 | 3.6913468 | 4946 | 3.6942541 | 4979 | 3.6971421 |
| 2914 | 3.6914352 | 4947 | 3.6943419 | 4980 | 3.6972293 |
| 2915 | 3.6915235 | 4948 | 3.6944297 | 4981 | 3.6973165 |
| 2916 | 3.6916119 | 4949 | 3.6945175 | 4982 | 3.6974037 |
| 2917 | 3.6917002 | 4950 | 3.6946052 | 4983 | 3.6974909 |
| 2918 | 3.6917885 | 4951 | 3.6946929 | 4984 | 3.6975780 |
| 2919 | 3.6918768 | 4952 | 3.6947806 | 4985 | 3.6976652 |
| 2920 | 3.6919651 | 4953 | 3.6948683 | 4986 | 3.6977523 |
| 2921 | 3.6920534 | 4954 | 3.6949560 | 4987 | 3.6978394 |
| 2922 | 3.6921416 | 4955 | 3.6950437 | 4988 | 3.6979264 |
| 2923 | 3.6922298 | 4956 | 3.6951313 | 4989 | 3.6980135 |
| 2924 | 3.6923180 | 4957 | 3.6952189 | 4990 | 3.6981005 |
| 2925 | 3.6924062 | 4958 | 3.6953065 | 4991 | 3.6981876 |
| 2926 | 3.6924944 | 4959 | 3.6953941 | 4992 | 3.6982746 |
| 2927 | 3.6925826 | 4960 | 3.6954817 | 4993 | 3.6983616 |
| 2928 | 3.6926707 | 4961 | 3.6955692 | 4994 | 3.6984485 |
| 2929 | 3.6927588 | 4962 | 3.6956568 | 4995 | 3.6985355 |
| 2930 | 3.6928469 | 4963 | 3.6957443 | 4996 | 3.6986224 |
| 2931 | 3.6929350 | 4964 | 3.6958318 | 4997 | 3.6987093 |
| 2932 | 3.6930231 | 4965 | 3.6959193 | 4998 | 3.6987963 |
| 2933 | 3.6931111 | 4966 | 3.6960067 | 4999 | 3.6988831 |
| 2934 | 3.6931991 | 4967 | 3.6960942 | 5000 | 3.6989700 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5001 | 3.6990569 | 5034 | 3.7019132 | 5067 | 3.7047509 |
| 5002 | 3.6991437 | 5035 | 3.7019995 | 5068 | 3.7048366 |
| 5003 | 3.6992305 | 5036 | 3.7020857 | 5069 | 3.7049223 |
| 5004 | 3.6993173 | 5037 | 3.7021719 | 5070 | 3.7050080 |
| 5005 | 3.6994041 | 5038 | 3.7022582 | 5071 | 3.7050936 |
| 5006 | 3.6994908 | 5039 | 3.7023444 | 5072 | 3.7051792 |
| 5007 | 3.6995776 | 5040 | 3.7024305 | 5073 | 3.7052649 |
| 5008 | 3.6996643 | 5041 | 3.7025167 | 5074 | 3.7053505 |
| 5009 | 3.6997510 | 5042 | 3.7026028 | 5075 | 3.7054360 |
| 5010 | 3.6998377 | 5043 | 3.7026890 | 5076 | 3.7055216 |
| 5011 | 3.6999244 | 5044 | 3.7027751 | 5077 | 3.7056072 |
| 5012 | 3.7000111 | 5045 | 3.7028612 | 5078 | 3.7056927 |
| 5013 | 3.7000977 | 5046 | 3.7029472 | 5079 | 3.7057782 |
| 5014 | 3.7001843 | 5047 | 3.7030333 | 5080 | 3.7058637 |
| 5015 | 3.7002709 | 5048 | 3.7031193 | 5081 | 3.7059492 |
| 5016 | 3.7003575 | 5049 | 3.7032054 | 5082 | 3.7060347 |
| 5017 | 3.7004441 | 5050 | 3.7032914 | 5083 | 3.7061201 |
| 5018 | 3.7005307 | 5051 | 3.7033774 | 5084 | 3.7062055 |
| 5019 | 3.7006172 | 5052 | 3.7034633 | 5085 | 3.7062910 |
| 5020 | 3.7007037 | 5053 | 3.7035493 | 5086 | 3.7063764 |
| 5021 | 3.7007902 | 5054 | 3.7036352 | 5087 | 3.7064617 |
| 5022 | 3.7008767 | 5055 | 3.7037212 | 5088 | 3.7065471 |
| 5023 | 3.7009632 | 5056 | 3.7038071 | 5089 | 3.7066324 |
| 5024 | 3.7010496 | 5057 | 3.7038929 | 5090 | 3.7067178 |
| 5025 | 3.7011361 | 5058 | 3.7039788 | 5091 | 3.7068031 |
| 5026 | 3.7012225 | 5059 | 3.7040647 | 5092 | 3.7068884 |
| 5027 | 3.7013089 | 5060 | 3.7041505 | 5093 | 3.7069737 |
| 5028 | 3.7013953 | 5061 | 3.7042363 | 5094 | 3.7070589 |
| 5029 | 3.7014816 | 5062 | 3.7043221 | 5095 | 3.7071442 |
| 5030 | 3.7015680 | 5063 | 3.7044079 | 5096 | 3.7072294 |
| 5031 | 3.7016543 | 5064 | 3.7044937 | 5097 | 3.7073146 |
| 5032 | 3.7017406 | 5065 | 3.7045794 | 5098 | 3.7073998 |
| 5033 | 3.7018269 | 5066 | 3.7046652 | 5099 | 3.7074850 |
| 5034 | 3.7019132 | 5067 | 3.7047509 | 5100 | 3.7075702 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5101 | 3.7076553 | 5134 | 3.7104559 | 5167 | 3.7132385 |
| 5102 | 3.7077405 | 5135 | 3.7105404 | 5168 | 3.7133225 |
| 5103 | 3.7078256 | 5136 | 3.7106250 | 5169 | 3.7134065 |
| 5104 | 3.7079107 | 5137 | 3.7107096 | 5170 | 3.7134905 |
| 5105 | 3.7079957 | 5138 | 3.7107941 | 5171 | 3.7135745 |
| 5106 | 3.7080808 | 5139 | 3.7108786 | 5172 | 3.7136585 |
| 5107 | 3.7081659 | 5140 | 3.7109631 | 5173 | 3.7137425 |
| 5108 | 3.7082509 | 5141 | 3.7110476 | 5174 | 3.7138264 |
| 5109 | 3.7083359 | 5142 | 3.7111321 | 5175 | 3.7139104 |
| 5110 | 3.7084209 | 5143 | 3.7112165 | 5176 | 3.7139943 |
| 5111 | 3.7085059 | 5144 | 3.7113010 | 5177 | 3.7140782 |
| 5112 | 3.7085908 | 5145 | 3.7113854 | 5178 | 3.7141620 |
| 5113 | 3.7086758 | 5146 | 3.7114698 | 5179 | 3.7142459 |
| 5114 | 3.7087607 | 5147 | 3.7115542 | 5180 | 3.7143298 |
| 5115 | 3.7088456 | 5148 | 3.7116385 | 5181 | 3.7144136 |
| 5116 | 3.7089305 | 5149 | 3.7117229 | 5182 | 3.7144974 |
| 5117 | 3.7090154 | 5150 | 3.7118072 | 5183 | 3.7145812 |
| 5118 | 3.7091003 | 5151 | 3.7118915 | 5184 | 3.7146650 |
| 5119 | 3.7091851 | 5152 | 3.7119759 | 5185 | 3.7147488 |
| 5120 | 3.7092700 | 5153 | 3.7120601 | 5186 | 3.7148325 |
| 5121 | 3.7093548 | 5154 | 3.7121444 | 5187 | 3.7149162 |
| 5122 | 3.7094396 | 5155 | 3.7122287 | 5188 | 3.7150000 |
| 5123 | 3.7095244 | 5156 | 3.7123129 | 5189 | 3.7150837 |
| 5124 | 3.7096091 | 5157 | 3.7123971 | 5190 | 3.7151674 |
| 5125 | 3.7096939 | 5158 | 3.7124813 | 5191 | 3.7152510 |
| 5126 | 3.7097786 | 5159 | 3.7125655 | 5192 | 3.7153347 |
| 5127 | 3.7098633 | 5160 | 3.7126497 | 5193 | 3.7154183 |
| 5128 | 3.7099480 | 5161 | 3.7127339 | 5194 | 3.7155019 |
| 5129 | 3.7100327 | 5162 | 3.7128180 | 5195 | 3.7155856 |
| 5130 | 3.7101174 | 5163 | 3.7129021 | 5196 | 3.7156691 |
| 5131 | 3.7102020 | 5164 | 3.7129862 | 5197 | 3.7157527 |
| 5132 | 3.7102866 | 5165 | 3.7130703 | 5198 | 3.7158363 |
| 5133 | 3.7103713 | 5166 | 3.7131544 | 5199 | 3.7159198 |
| 5134 | 3.7104559 | 5167 | 3.7132385 | 5200 | 3.7160033 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5201 | 3.7160869 | 5234 | 3.7188337 | 5267 | 3.7215633 |
| 5202 | 3.7161703 | 5235 | 3.7189167 | 5268 | 3.7216458 |
| 5203 | 3.7162538 | 5236 | 3.7189996 | 5269 | 3.7217282 |
| 5204 | 3.7163373 | 5237 | 3.7190826 | 5270 | 3.7218106 |
| 5205 | 3.7164207 | 5238 | 3.7191655 | 5271 | 3.7218930 |
| 5206 | 3.7165042 | 5239 | 3.7192484 | 5272 | 3.7219754 |
| 5207 | 3.7165876 | 5240 | 3.7193313 | 5273 | 3.7220578 |
| 5208 | 3.7166710 | 5241 | 3.7194142 | 5274 | 3.7221401 |
| 5209 | 3.7167544 | 5242 | 3.7194970 | 5275 | 3.7222225 |
| 5210 | 3.7168377 | 5243 | 3.7195799 | 5276 | 3.7223048 |
| 5211 | 3.7169211 | 5244 | 3.7196627 | 5277 | 3.7223871 |
| 5212 | 3.7170044 | 5245 | 3.7197455 | 5278 | 3.7224694 |
| 5213 | 3.7170877 | 5246 | 3.7198283 | 5279 | 3.7225517 |
| 5214 | 3.7171710 | 5247 | 3.7199111 | 5280 | 3.7226339 |
| 5215 | 3.7172543 | 5248 | 3.7199938 | 5281 | 3.7227162 |
| 5216 | 3.7173376 | 5249 | 3.7200766 | 5282 | 3.7227984 |
| 5217 | 3.7174208 | 5250 | 3.7201593 | 5283 | 3.7228806 |
| 5218 | 3.7175041 | 5251 | 3.7202420 | 5284 | 3.7229628 |
| 5219 | 3.7175873 | 5252 | 3.7203247 | 5285 | 3.7230450 |
| 5220 | 3.7176705 | 5253 | 3.7204074 | 5286 | 3.7231272 |
| 5221 | 3.7177537 | 5254 | 3.7204901 | 5287 | 3.7232093 |
| 5222 | 3.7178369 | 5255 | 3.7205727 | 5288 | 3.7232914 |
| 5223 | 3.7179200 | 5256 | 3.7206554 | 5289 | 3.7233736 |
| 5224 | 3.7180032 | 5257 | 3.7207380 | 5290 | 3.7234557 |
| 5225 | 3.7180863 | 5258 | 3.7208206 | 5291 | 3.7235378 |
| 5226 | 3.7181694 | 5259 | 3.7209032 | 5292 | 3.7236198 |
| 5227 | 3.7182525 | 5260 | 3.7209857 | 5293 | 3.7237019 |
| 5228 | 3.7183356 | 5261 | 3.7210683 | 5294 | 3.7237839 |
| 5229 | 3.7184186 | 5262 | 3.7211508 | 5295 | 3.7238660 |
| 5230 | 3.7185017 | 5263 | 3.7212334 | 5296 | 3.7239480 |
| 5231 | 3.7185847 | 5264 | 3.7213159 | 5297 | 3.7240300 |
| 5232 | 3.7186677 | 5265 | 3.7213984 | 5298 | 3.7241120 |
| 5233 | 3.7187507 | 5266 | 3.7214809 | 5299 | 3.7241939 |
| 5234 | 3.7188337 | 5267 | 3.7215633 | 5300 | 3.7242759 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5301 | 3.7243578 | 5334 | 3.7270530 | 5367 | 3.7297316 |
| 5302 | 3.7244397 | 5335 | 3.7271344 | 5368 | 3.7298125 |
| 5303 | 3.7245216 | 5336 | 3.7272158 | 5369 | 3.7298934 |
| 5304 | 3.7246035 | 5337 | 3.7272972 | 5370 | 3.7299743 |
| 5305 | 3.7246854 | 5338 | 3.7273786 | 5371 | 3.7300551 |
| 5306 | 3.7247672 | 5339 | 3.7274599 | 5372 | 3.7301360 |
| 5307 | 3.7248491 | 5340 | 3.7275413 | 5373 | 3.7302168 |
| 5308 | 3.7249309 | 5341 | 3.7276226 | 5374 | 3.7302977 |
| 5309 | 3.7250127 | 5342 | 3.7277039 | 5375 | 3.7303785 |
| 5310 | 3.7250945 | 5343 | 3.7277852 | 5376 | 3.7304593 |
| 5311 | 3.7251763 | 5344 | 3.7278664 | 5377 | 3.7305400 |
| 5312 | 3.7252581 | 5345 | 3.7279477 | 5378 | 3.7306208 |
| 5313 | 3.7253398 | 5346 | 3.7280290 | 5379 | 3.7307015 |
| 5314 | 3.7254215 | 5347 | 3.7281102 | 5380 | 3.7307823 |
| 5315 | 3.7255033 | 5348 | 3.7281914 | 5381 | 3.7308630 |
| 5316 | 3.7255850 | 5349 | 3.7282726 | 5382 | 3.7309437 |
| 5317 | 3.7256667 | 5350 | 3.7283538 | 5383 | 3.7310244 |
| 5318 | 3.7257483 | 5351 | 3.7284349 | 5384 | 3.7311051 |
| 5319 | 3.7258300 | 5352 | 3.7285161 | 5385 | 3.7311857 |
| 5320 | 3.7259116 | 5353 | 3.7285972 | 5386 | 3.7312663 |
| 5321 | 3.7259933 | 5354 | 3.7286784 | 5387 | 3.7313470 |
| 5322 | 3.7260749 | 5355 | 3.7287595 | 5388 | 3.7314276 |
| 5323 | 3.7261565 | 5356 | 3.7288406 | 5389 | 3.7315082 |
| 5324 | 3.7262380 | 5357 | 3.7289216 | 5390 | 3.7315888 |
| 5325 | 3.7263196 | 5358 | 3.7290027 | 5391 | 3.7316693 |
| 5326 | 3.7264012 | 5359 | 3.7290838 | 5392 | 3.7317499 |
| 5327 | 3.7264827 | 5360 | 3.7291648 | 5393 | 3.7318304 |
| 5328 | 3.7265642 | 5361 | 3.7292458 | 5394 | 3.7319109 |
| 5329 | 3.7266457 | 5362 | 3.7293268 | 5395 | 3.7319914 |
| 5330 | 3.7267272 | 5363 | 3.7294078 | 5396 | 3.7320719 |
| 5331 | 3.7268087 | 5364 | 3.7294888 | 5397 | 3.7321524 |
| 5332 | 3.7268901 | 5365 | 3.7295697 | 5398 | 3.7322329 |
| 5333 | 3.7269716 | 5366 | 3.7296507 | 5399 | 3.7323133 |
| 5334 | 3.7270530 | 5367 | 3.7297316 | 5400 | 3.7323938 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5401 | 3.7324742 | 5434 | 3.7351196 | 5467 | 3.7377491 |
| 5402 | 3.7325546 | 5435 | 3.7351995 | 5468 | 3.7378285 |
| 5403 | 3.7326350 | 5436 | 3.7352794 | 5469 | 3.7379079 |
| 5404 | 3.7327153 | 5437 | 3.7353593 | 5470 | 3.7379873 |
| 5405 | 3.7327957 | 5438 | 3.7354392 | 5471 | 3.7380667 |
| 5406 | 3.7328760 | 5439 | 3.7355191 | 5472 | 3.7381461 |
| 5407 | 3.7329564 | 5440 | 3.7355989 | 5473 | 3.7382254 |
| 5408 | 3.7330367 | 5441 | 3.7356787 | 5474 | 3.7383048 |
| 5409 | 3.7331170 | 5442 | 3.7357585 | 5475 | 3.7383841 |
| 5410 | 3.7331973 | 5443 | 3.7358383 | 5476 | 3.7384634 |
| 5411 | 3.7332775 | 5444 | 3.7359181 | 5477 | 3.7385427 |
| 5412 | 3.7333578 | 5445 | 3.7359979 | 5478 | 3.7386220 |
| 5413 | 3.7334380 | 5446 | 3.7360776 | 5479 | 3.7387013 |
| 5414 | 3.7335182 | 5447 | 3.7361574 | 5480 | 3.7387806 |
| 5415 | 3.7335985 | 5448 | 3.7362371 | 5481 | 3.7388598 |
| 5416 | 3.7336787 | 5449 | 3.7363168 | 5482 | 3.7389390 |
| 5417 | 3.7337588 | 5450 | 3.7363965 | 5483 | 3.7390182 |
| 5418 | 3.7338390 | 5451 | 3.7364762 | 5484 | 3.7390974 |
| 5419 | 3.7339191 | 5452 | 3.7365558 | 5485 | 3.7391766 |
| 5420 | 3.7339993 | 5453 | 3.7366355 | 5486 | 3.7392558 |
| 5421 | 3.7340794 | 5454 | 3.7367151 | 5487 | 3.7393350 |
| 5422 | 3.7341595 | 5455 | 3.7367948 | 5488 | 3.7394141 |
| 5423 | 3.7342396 | 5456 | 3.7368744 | 5489 | 3.7394932 |
| 5424 | 3.7343197 | 5457 | 3.7369540 | 5490 | 3.7395723 |
| 5425 | 3.7343997 | 5458 | 3.7370335 | 5491 | 3.7396514 |
| 5426 | 3.7344798 | 5459 | 3.7371131 | 5492 | 3.7397305 |
| 5427 | 3.7345598 | 5460 | 3.7371926 | 5493 | 3.7398096 |
| 5428 | 3.7346398 | 5461 | 3.7372722 | 5494 | 3.7398887 |
| 5429 | 3.7347198 | 5462 | 3.7373517 | 5495 | 3.7399677 |
| 5430 | 3.7347998 | 5463 | 3.7374312 | 5496 | 3.7400467 |
| 5431 | 3.7348798 | 5464 | 3.7375107 | 5497 | 3.7401257 |
| 5432 | 3.7349598 | 5465 | 3.7375902 | 5498 | 3.7402047 |
| 5433 | 3.7350397 | 5466 | 3.7376696 | 5499 | 3.7402837 |
| 5434 | 3.7351196 | 5467 | 3.7377491 | 5500 | 3.7403627 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5501 | 3.7404416 | 5534 | 3.7430392 | 5567 | 3.7456212 |
| 5502 | 3.7405206 | 5535 | 3.7431176 | 5568 | 3.7456992 |
| 5503 | 3.7405995 | 5536 | 3.7431961 | 5569 | 3.7457772 |
| 5504 | 3.7406784 | 5537 | 3.7432745 | 5570 | 3.7458552 |
| 5505 | 3.7407573 | 5538 | 3.7433530 | 5571 | 3.7459332 |
| 5506 | 3.7408362 | 5539 | 3.7434314 | 5572 | 3.7460111 |
| 5507 | 3.7409151 | 5540 | 3.7435098 | 5573 | 3.7460890 |
| 5508 | 3.7409939 | 5541 | 3.7435881 | 5574 | 3.7461670 |
| 5509 | 3.7410728 | 5542 | 3.7436665 | 5575 | 3.7462449 |
| 5510 | 3.7411516 | 5543 | 3.7437449 | 5576 | 3.7463228 |
| 5511 | 3.7412304 | 5544 | 3.7438232 | 5577 | 3.7464006 |
| 5512 | 3.7413092 | 5545 | 3.7439015 | 5578 | 3.7464785 |
| 5513 | 3.7413880 | 5546 | 3.7439799 | 5579 | 3.7465564 |
| 5514 | 3.7414668 | 5547 | 3.7440582 | 5580 | 3.7466342 |
| 5515 | 3.7415455 | 5548 | 3.7441365 | 5581 | 3.7467120 |
| 5516 | 3.7416243 | 5549 | 3.7442147 | 5582 | 3.7467898 |
| 5517 | 3.7417030 | 5550 | 3.7442930 | 5583 | 3.7468676 |
| 5518 | 3.7417817 | 5551 | 3.7443712 | 5584 | 3.7469454 |
| 5519 | 3.7418604 | 5552 | 3.7444495 | 5585 | 3.7470232 |
| 5520 | 3.7419391 | [illegible] | [illegible]5277 | 5586 | 3.7471009 |
| 5521 | 3.7420177 | 5554 | 3.7446060 | 5587 | 3.7471787 |
| 5522 | 3.7420964 | 5555 | 3.7446841 | 5588 | 3.7472564 |
| 5523 | 3.7421750 | 5556 | 3.7447622 | 5589 | 3.7473341 |
| 5524 | 3.7422537 | 5557 | 3.7448404 | 5590 | 3.7474118 |
| 5525 | 3.7423323 | 5558 | 3.7449185 | 5591 | 3.7474895 |
| 5526 | 3.7424109 | 5559 | 3.7449967 | 5592 | 3.7475672 |
| 5527 | 3.7424895 | 5560 | 3.7450748 | 5593 | 3.7476448 |
| 5528 | 3.7425680 | 5561 | 3.7451529 | 5594 | 3.7477225 |
| 5529 | 3.7426466 | 5562 | 3.7452310 | 5595 | 3.7478001 |
| 5530 | 3.7427251 | 5563 | 3.7453091 | 5596 | 3.7478777 |
| 5531 | 3.7428037 | 5564 | 3.7453871 | 5597 | 3.7479553 |
| 5532 | 3.7428822 | 5565 | 3.7454652 | 5598 | 3.7480329 |
| 5533 | 3.7429607 | 5566 | 3.7455432 | 5599 | 3.7481105 |
| 5534 | 3.7430392 | 5567 | 3.7456212 | 5600 | 3.7481880 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5601 | 3.7482656 | 5634 | 3.7508168 | 5667 | 3.7533532 |
| 5602 | 3.7483431 | 5635 | 3.7508939 | 5668 | 3.7534298 |
| 5603 | 3.7484206 | 5636 | 3.7509710 | 5669 | 3.7535065 |
| 5604 | 3.7484981 | 5637 | 3.7510480 | 5670 | 3.7535831 |
| 5605 | 3.7485756 | 5638 | 3.7511251 | 5671 | 3.7536596 |
| 5606 | 3.7486531 | 5639 | 3.7512021 | 5672 | 3.7537362 |
| 5607 | 3.7487306 | 5640 | 3.7512791 | 5673 | 3.7538128 |
| 5608 | 3.7488080 | 5641 | 3.7513561 | 5674 | 3.7538893 |
| 5609 | 3.7488854 | 5642 | 3.7514331 | 5675 | 3.7539659 |
| 5610 | 3.7489629 | 5643 | 3.7515100 | 5676 | 3.7540424 |
| 5611 | 3.7490403 | 5644 | 3.7515870 | 5677 | 3.7541189 |
| 5612 | 3.7491177 | 5645 | 3.7516639 | 5678 | 3.7541954 |
| 5613 | 3.7491950 | 5646 | 3.7517409 | 5679 | 3.7542719 |
| 5614 | 3.7492724 | 5647 | 3.7518178 | 5680 | 3.7543483 |
| 5615 | 3.7493498 | 5648 | 3.7518947 | 5681 | 3.7544248 |
| 5616 | 3.7494271 | 5649 | 3.7519716 | 5682 | 3.7545012 |
| 5617 | 3.7495044 | 5650 | 3.7520484 | 5683 | 3.7545777 |
| 5618 | 3.7495817 | 5651 | 3.7521253 | 5684 | 3.7546541 |
| 5619 | 3.7496590 | 5652 | 3.7522022 | 5685 | 3.7547305 |
| 5620 | 3.7497363 | 5653 | 3.7522790 | 5686 | 3.7548069 |
| 5621 | 3.7498136 | 5654 | 3.7523558 | 5687 | 3.7548832 |
| 5622 | 3.7498908 | 5655 | 3.7524326 | 5688 | 3.7549596 |
| 5623 | 3.7499681 | 5656 | 3.7525094 | 5689 | 3.7550359 |
| 5624 | 3.7500453 | 5657 | 3.7525862 | 5690 | 3.7551123 |
| 5625 | 3.7501225 | 5658 | 3.7526629 | 5691 | 3.7551886 |
| 5626 | 3.7501997 | 5659 | 3.7527397 | 5692 | 3.7552649 |
| 5627 | 3.7502769 | 5660 | 3.7528164 | 5693 | 3.7553412 |
| 5628 | 3.7503541 | 5661 | 3.7528932 | 5694 | 3.7554175 |
| 5629 | 3.7504312 | 5662 | 3.7529699 | 5695 | 3.7554937 |
| 5630 | 3.7505084 | 5663 | 3.7530466 | 5696 | 3.7555700 |
| 5631 | 3.7505855 | 5664 | 3.7531232 | 5697 | 3.7556462 |
| 5632 | 3.7506626 | 5665 | 3.7531999 | 5698 | 3.7557224 |
| 5633 | 3.7507398 | 5666 | 3.7532766 | 5699 | 3.7557987 |
| 5634 | 3.7508168 | 5667 | 3.7533532 | 5700 | 3.7558749 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5701 | 3.7559510 | 5734 | 3.7584577 | 5767 | 3.7609500 |
| 5702 | 3.7560272 | 5735 | 3.7585334 | 5768 | 3.7610253 |
| 5703 | 3.7561034 | 5736 | 3.7586091 | 5769 | 3.7611005 |
| 5704 | 3.7561795 | 5737 | 3.7586848 | 5770 | 3.7611758 |
| 5705 | 3.7562556 | 5738 | 3.7587605 | 5771 | 3.7612511 |
| 5706 | 3.7563318 | 5739 | 3.7588362 | 5772 | 3.7613263 |
| 5707 | 3.7564079 | 5740 | 3.7589119 | 5773 | 3.7614016 |
| 5708 | 3.7564840 | 5741 | 3.7589875 | 5774 | 3.7614768 |
| 5709 | 3.7565600 | 5742 | 3.7590632 | 5775 | 3.7615520 |
| 5710 | 3.7566361 | 5743 | 3.7591388 | 5776 | 3.7616272 |
| 5711 | 3.7567122 | 5744 | 3.7592144 | 5777 | 3.7617024 |
| 5712 | 3.7567882 | 5745 | 3.7592900 | 5778 | 3.7617775 |
| 5713 | 3.7568642 | 5746 | 3.7593656 | 5779 | 3.7618527 |
| 5714 | 3.7569402 | 5747 | 3.7594412 | 5780 | 3.7619278 |
| 5715 | 3.7570162 | 5748 | 3.7595168 | 5781 | 3.7620030 |
| 5716 | 3.7570922 | 5749 | 3.7595923 | 5782 | 3.7620781 |
| 5717 | 3.7571682 | 5750 | 3.7596678 | 5783 | 3.7621532 |
| 5718 | 3.7572441 | 5751 | 3.7597434 | 5784 | 3.7622283 |
| 5719 | 3.7573201 | 5752 | 3.7598189 | 5785 | 3.7623034 |
| 5720 | 3.7573960 | 5753 | 3.7598944 | 5786 | 3.7623784 |
| 5721 | 3.7574719 | 5754 | 3.7599699 | 5787 | 3.7624535 |
| 5722 | 3.7575479 | 5755 | 3.7600453 | 5788 | 3.7625285 |
| 5723 | 3.7576237 | 5756 | 3.7601208 | 5789 | 3.7626035 |
| 5724 | 3.7576996 | 5757 | 3.7601962 | 5790 | 3.7626785 |
| 5725 | 3.7577755 | 5758 | 3.7602717 | 5791 | 3.7627536 |
| 5726 | 3.7578513 | 5759 | 3.7603471 | 5792 | 3.7628286 |
| 5727 | 3.7579272 | 5760 | 3.7604225 | 5793 | 3.7629035 |
| 5728 | 3.7580030 | 5761 | 3.7604979 | 5794 | 3.7629785 |
| 5729 | 3.7580788 | 5762 | 3.7605733 | 5795 | 3.7630534 |
| 5730 | 3.7581546 | 5763 | 3.7606486 | 5796 | 3.7631284 |
| 5731 | 3.7582304 | 5764 | 3.7607240 | 5797 | 3.7632033 |
| 5732 | 3.7583062 | 5765 | 3.7607993 | 5798 | 3.7632782 |
| 5733 | 3.7583819 | 5766 | 3.7608746 | 5799 | 3.7633531 |
| 5734 | 3.7584577 | 5767 | 3.7609500 | 5800 | 3.7634280 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5801 | 3.7635029 | 5834 | 3.7659664 | 5867 | 3.7684161 |
| 5802 | 3.7635777 | 5835 | 3.7660409 | 5868 | 3.7684901 |
| 5803 | 3.7636526 | 5836 | 3.7661153 | 5869 | 3.7685641 |
| 5804 | 3.7637274 | 5837 | 3.7661897 | 5870 | 3.7686381 |
| 5805 | 3.7638022 | 5838 | 3.7662641 | 5871 | 3.7687121 |
| 5806 | 3.7638770 | 5839 | 3.7663385 | 5872 | 3.7687860 |
| 5807 | 3.7639518 | 5840 | 3.7664128 | 5873 | 3.7688600 |
| 5808 | 3.7640266 | 5841 | 3.7664872 | 5874 | 3.7689339 |
| 5809 | 3.7641014 | 5842 | 3.7665616 | 5875 | 3.7690079 |
| 5810 | 3.7641761 | 5843 | 3.7666359 | 5876 | 3.7690818 |
| 5811 | 3.7642509 | 5844 | 3.7667102 | 5877 | 3.7691557 |
| 5812 | 3.7643256 | 5845 | 3.7667845 | 5878 | 3.7692296 |
| 5813 | 3.7644003 | 5846 | 3.7668588 | 5879 | 3.7693035 |
| 5814 | 3.7644750 | 5847 | 3.7669331 | 5880 | 3.7693773 |
| 5815 | 3.7645497 | 5848 | 3.7670074 | 5881 | 3.7694512 |
| 5816 | 3.7646244 | 5849 | 3.7670816 | 5882 | 3.7695250 |
| 5817 | 3.7646991 | 5850 | 3.7671559 | 5883 | 3.7695988 |
| 5818 | 3.7647737 | 5851 | 3.7672301 | 5884 | 3.7696727 |
| 5819 | 3.7648484 | 5852 | 3.7673043 | 5885 | 3.7697465 |
| 5820 | 3.7649230 | 5853 | 3.7673785 | 5886 | 3.7698203 |
| 5821 | 3.7649976 | 5854 | 3.7674527 | 5887 | 3.7698940 |
| 5822 | 3.7650722 | 5855 | 3.7675269 | 5888 | 3.7699678 |
| 5823 | 3.7651468 | 5856 | 3.7676011 | 5889 | 3.7700416 |
| 5824 | 3.7652214 | 5857 | 3.7676752 | 5890 | 3.7701153 |
| 5825 | 3.7652959 | 5858 | 3.7677494 | 5891 | 3.7701890 |
| 5826 | 3.7653705 | 5859 | 3.7678235 | 5892 | 3.7702627 |
| 5827 | 3.7654450 | 5860 | 3.7678976 | 5893 | 3.7703364 |
| 5828 | 3.7654195 | 5861 | 3.7679717 | 5894 | 3.7704101 |
| 5829 | 3.7655941 | 5862 | 3.7680458 | 5895 | 3.7704838 |
| 5830 | 3.7656686 | 5863 | 3.7681199 | 5896 | 3.7705575 |
| 5831 | 3.7657430 | 5864 | 3.7681940 | 5897 | 3.7706311 |
| 5832 | 3.7658175 | 5865 | 3.7682680 | 5898 | 3.7707048 |
| 5833 | 3.7658920 | 5866 | 3.7683421 | 5899 | 3.7707784 |
| 5834 | 3.7659664 | 5867 | 3.7684161 | 5900 | 3.7708520 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 5901 | 3.7709256 | 5934 | 3.7733475 | 5967 | 3.7757560 |
| 5902 | 3.7709992 | 5935 | 3.7734207 | 5968 | 3.7758288 |
| 5903 | 3.7710728 | 5936 | 3.7734939 | 5969 | 3.7759016 |
| 5904 | 3.7711463 | 5937 | 3.7735670 | 5970 | 3.7759743 |
| 5905 | 3.7712199 | 5938 | 3.7736402 | 5971 | 3.7760471 |
| 5906 | 3.7712934 | 5939 | 3.7737133 | 5972 | 3.7761198 |
| 5907 | 3.7713670 | 5940 | 3.7737864 | 5973 | 3.7761925 |
| 5908 | 3.7714405 | 5941 | 3.7738596 | 5974 | 3.7762652 |
| 5909 | 3.7715140 | 5942 | 3.7739326 | 5975 | 3.7763379 |
| 5910 | 3.7715875 | 5943 | 3.7740057 | 5976 | 3.7764106 |
| 5911 | 3.7716610 | 5944 | 3.7740788 | 5977 | 3.7764833 |
| 5912 | 3.7717344 | 5945 | 3.7741519 | 5978 | 3.7765559 |
| 5913 | 3.7718079 | 5946 | 3.7742249 | 5979 | 3.7766286 |
| 5914 | 3.7718813 | 5947 | 3.7742979 | 5980 | 3.7767012 |
| 5915 | 3.7719547 | 5948 | 3.7743710 | 5981 | 3.7767738 |
| 5916 | 3.7720282 | 5949 | 3.7744440 | 5982 | 3.7768464 |
| 5917 | 3.7721016 | 5950 | 3.7745170 | 5983 | 3.7769190 |
| 5918 | 3.7721750 | 5951 | 3.7745899 | 5984 | 3.7769916 |
| 5919 | 3.7722483 | 5952 | 3.7746629 | 5985 | 3.7770642 |
| 5920 | 3.7723217 | 5953 | 3.7747359 | 5986 | 3.7771367 |
| 5921 | 3.7723951 | 5954 | 3.7748088 | 5987 | 3.7772093 |
| 5922 | 3.7724684 | 5955 | 3.7748818 | 5988 | 3.7772818 |
| 5923 | 3.7725417 | 5956 | 3.7749547 | 5989 | 3.7773543 |
| 5924 | 3.7726150 | 5957 | 3.7750276 | 5990 | 3.7774268 |
| 5925 | 3.7726884 | 5958 | 3.7751005 | 5991 | 3.7774993 |
| 5926 | 3.7727616 | 5959 | 3.7751734 | 5992 | 3.7775718 |
| 5927 | 3.7728349 | 5960 | 3.7752463 | 5993 | 3.7776443 |
| 5928 | 3.7729082 | 5961 | 3.7753191 | 5994 | 3.7777167 |
| 5929 | 3.7729814 | 5962 | 3.7753920 | 5995 | 3.7777892 |
| 5930 | 3.7730547 | 5963 | 3.7754648 | 5996 | 3.7778616 |
| 5931 | 3.7731279 | 5964 | 3.7755376 | 5997 | 3.7779340 |
| 5932 | 3.7732011 | 5965 | 3.7756104 | 5998 | 3.7780065 |
| 5933 | 3.7732743 | 5966 | 3.7756832 | 5999 | 3.7780789 |
| 5934 | 3.7733475 | 5967 | 3.7757560 | 6000 | 3.7781512 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6001 | 3.7782236 | 6034 | 3.7806053 | 6067 | 3.7829740 |
| 6002 | 3.7782960 | 6035 | 3.7806773 | 6068 | 3.7830456 |
| 6003 | 3.7783683 | 6036 | 3.7807492 | 6069 | 3.7831171 |
| 6004 | 3.7784407 | 6037 | 3.7808212 | 6070 | 3.7831887 |
| 6005 | 3.7785130 | 6038 | 3.7808931 | 6071 | 3.7832602 |
| 6006 | 3.7785853 | 6039 | 3.7809650 | 6072 | 3.7833318 |
| 6007 | 3.7786576 | 6040 | 3.7810369 | 6073 | 3.7834033 |
| 6008 | 3.7787299 | 6041 | 3.7811088 | 6074 | 3.7834748 |
| 6009 | 3.7788022 | 6042 | 3.7811807 | 6075 | 3.7835463 |
| 6010 | 3.7788745 | 6043 | 3.7812526 | 6076 | 3.7836178 |
| 6011 | 3.7789467 | 6044 | 3.7813245 | 6077 | 3.7836892 |
| 6012 | 3.7790190 | 6045 | 3.7813963 | 6078 | 3.7837607 |
| 6013 | 3.7790912 | 6046 | 3.7814681 | 6079 | 3.7838321 |
| 6014 | 3.7791634 | 6047 | 3.7815400 | 6080 | 3.7839036 |
| 6015 | 3.7792356 | 6048 | 3.7816118 | 6081 | 3.7839750 |
| 6016 | 3.7793078 | 6049 | 3.7816836 | 6082 | 3.7840464 |
| 6017 | 3.7793800 | 6050 | 3.7817554 | 6083 | 3.7841178 |
| 6018 | 3.7794522 | 6051 | 3.7818272 | 6084 | 3.7841892 |
| 6019 | 3.7795243 | 6052 | 3.7818989 | 6085 | 3.7842606 |
| 6020 | 3.7795965 | 6053 | 3.7819707 | 6086 | 3.7843319 |
| 6021 | 3.7796686 | 6054 | 3.7820424 | 6087 | 3.7844033 |
| 6022 | 3.7797408 | 6055 | 3.7821141 | 6088 | 3.7844746 |
| 6023 | 3.7798129 | 6056 | 3.7821859 | 6089 | 3.7845460 |
| 6024 | 3.7798850 | 6057 | 3.7822576 | 6090 | 3.7846173 |
| 6025 | 3.7799571 | 6058 | 3.7823293 | 6091 | 3.7846886 |
| 6026 | 3.7800291 | 6059 | 3.7824010 | 6092 | 3.7847599 |
| 6027 | 3.7801012 | 6060 | 3.7824726 | 6093 | 3.7848312 |
| 6028 | 3.7801732 | 6061 | 3.7825443 | 6094 | 3.7849024 |
| 6029 | 3.7802453 | 6062 | 3.7826159 | 6095 | 3.7849737 |
| 6030 | 3.7803173 | 6063 | 3.7826876 | 6096 | 3.7850450 |
| 6031 | 3.7803893 | 6064 | 3.7827592 | 6097 | 3.7851162 |
| 6032 | 3.7804613 | 6065 | 3.7828308 | 6098 | 3.7851874 |
| 6033 | 3.7805333 | 6066 | 3.7829024 | 6099 | 3.7852586 |
| 6034 | 3.7806053 | 6067 | 3.7829740 | 6100 | 3.7853298 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6101 | 3.7854010 | 6134 | 3.7877438 | 6167 | 3.7900739 |
| 6102 | 3.7854722 | 6135 | 3.7878146 | 6168 | 3.7901444 |
| 6103 | 3.7855434 | 6136 | 3.7878853 | 6169 | 3.7902148 |
| 6104 | 3.7856145 | 6137 | 3.7879561 | 6170 | 3.7902852 |
| 6105 | 3.7856857 | 6138 | 3.7880269 | 6171 | 3.7903555 |
| 6106 | 3.7857568 | 6139 | 3.7880976 | 6172 | 3.7904259 |
| 6107 | 3.7858279 | 6140 | 3.7881684 | 6173 | 3.7904963 |
| 6108 | 3.7858990 | 6141 | 3.7882391 | 6174 | 3.7905666 |
| 6109 | 3.7859701 | 6142 | 3.7883098 | 6175 | 3.7906370 |
| 6110 | 3.7860412 | 6143 | 3.7883805 | 6176 | 3.7907073 |
| 6111 | 3.7861123 | 6144 | 3.7884512 | 6177 | 3.7907776 |
| 6112 | 3.7861833 | 6145 | 3.7885219 | 6178 | 3.7908479 |
| 6113 | 3.7862544 | 6146 | 3.7885926 | 6179 | 3.7909182 |
| 6114 | 3.7863254 | 6147 | 3.7886632 | 6180 | 3.7909885 |
| 6115 | 3.7863965 | 6148 | 3.7887339 | 6181 | 3.7910587 |
| 6116 | 3.7864675 | 6149 | 3.7888045 | 6182 | 3.7911290 |
| 6117 | 3.7865385 | 6150 | 3.7888751 | 6183 | 3.7911992 |
| 6118 | 3.7866095 | 6151 | 3.7889457 | 6184 | 3.7912695 |
| 6119 | 3.7866805 | 6152 | 3.7890163 | 6185 | 3.7913397 |
| 6120 | 3.7867514 | 6153 | 3.7890869 | 6186 | 3.7914099 |
| 6121 | 3.7868224 | 6154 | 3.7891575 | 6187 | 3.7914801 |
| 6122 | 3.7868933 | 6155 | 3.7892281 | 6188 | 3.7915503 |
| 6123 | 3.7869643 | 6156 | 3.7892986 | 6189 | 3.7916205 |
| 6124 | 3.7870352 | 6157 | 3.7893692 | 6190 | 3.7916906 |
| 6125 | 3.7871061 | 6158 | 3.7894397 | 6191 | 3.7917608 |
| 6126 | 3.7871770 | 6159 | 3.7895102 | 6192 | 3.7918309 |
| 6127 | 3.7872479 | 6160 | 3.7895807 | 6193 | 3.7919011 |
| 6128 | 3.7873188 | 6161 | 3.7896512 | 6194 | 3.7919712 |
| 6129 | 3.7873896 | 6162 | 3.7897217 | 6195 | 3.7920413 |
| 6130 | 3.7874605 | 6163 | 3.7897922 | 6196 | 3.7921114 |
| 6131 | 3.7875313 | 6164 | 3.7898626 | 6197 | 3.7921815 |
| 6132 | 3.7876021 | 6165 | 3.7899331 | 6198 | 3.7922516 |
| 6133 | 3.7876730 | 6166 | 3.7900035 | 6199 | 3.7923216 |
| 6134 | 3.7877438 | 6167 | 3.7900739 | 6200 | 3.7923917 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6201 | 3.7924617 | 6234 | 3.7947668 | 6267 | 3.7970597 |
| 6202 | 3.7925318 | 6235 | 3.7948365 | 6268 | 3.7971290 |
| 6203 | 3.7926018 | 6236 | 3.7949061 | 6269 | 3.7971983 |
| 6204 | 3.7926718 | 6237 | 3.7949757 | 6270 | 3.7972675 |
| 6205 | 3.7927418 | 6238 | 3.7950454 | 6271 | 3.7973368 |
| 6206 | 3.7928118 | 6239 | 3.7951150 | 6272 | 3.7974060 |
| 6207 | 3.7928817 | 6240 | 3.7951846 | 6273 | 3.7974753 |
| 6208 | 3.7929517 | 6241 | 3.7952542 | 6274 | 3.7975445 |
| 6209 | 3.7930217 | 6242 | 3.7953238 | 6275 | 3.7976137 |
| 6210 | 3.7930916 | 6243 | 3.7953933 | 6276 | 3.7976829 |
| 6211 | 3.7931615 | 6244 | 3.7954629 | 6277 | 3.7977521 |
| 6212 | 3.7932314 | 6245 | 3.7955324 | 6278 | 3.7978213 |
| 6213 | 3.7933014 | 6246 | 3.7956020 | 6279 | 3.7978905 |
| 6214 | 3.7933712 | 6247 | 3.7956715 | 6280 | 3.7979596 |
| 6215 | 3.7934411 | 6248 | 3.7957410 | 6281 | 3.7980288 |
| 6216 | 3.7935110 | 6249 | 3.7958105 | 6282 | 3.7980979 |
| 6217 | 3.7935809 | 6250 | 3.7958800 | 6283 | 3.7981671 |
| 6218 | 3.7936507 | 6251 | 3.7959495 | 6284 | 3.7982362 |
| 6219 | 3.7937206 | 6252 | 3.7960190 | 6285 | 3.7983053 |
| 6220 | 3.7937904 | 6253 | 3.7960884 | 6286 | 3.7983744 |
| 6221 | 3.7938602 | 6254 | 3.7961579 | 6287 | 3.7984435 |
| 6222 | 3.7939300 | 6255 | 3.7962273 | 6288 | 3.7985125 |
| 6223 | 3.7939998 | 6256 | 3.7962967 | 6289 | 3.7985816 |
| 6224 | 3.7940696 | 6257 | 3.7963662 | 6290 | 3.7986506 |
| 6225 | 3.7941394 | 6258 | 3.7964356 | 6291 | 3.7987197 |
| 6226 | 3.7942091 | 6259 | 3.7965050 | 6292 | 3.7987887 |
| 6227 | 3.7942789 | 6260 | 3.7966743 | 6293 | 3.7988577 |
| 6228 | 3.7943486 | 6261 | 3.7967437 | 6294 | 3.7989267 |
| 6229 | 3.7944183 | 6262 | 3.7967131 | 6295 | 3.7989957 |
| 6230 | 3.7944880 | 6263 | 3.7968824 | 6296 | 3.7990647 |
| 6231 | 3.7945578 | 6264 | 3.7968517 | 6297 | 3.7991337 |
| 6232 | 3.7946274 | 6265 | 3.7969211 | 6298 | 3.7992027 |
| 6233 | 3.7946971 | 6266 | 3.7969904 | 6299 | 3.7992716 |
| 6234 | 3.7947668 | 6267 | 3.7970597 | 6300 | 3.7993405 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6301 | 3.7994095 | 6334 | 3.8016781 | 6367 | 3.8039348 |
| 6302 | 3.7994784 | 6335 | 3.8017466 | 6368 | 3.8040031 |
| 6303 | 3.7995473 | 6336 | 3.8018152 | 6369 | 3.8040712 |
| 6304 | 3.7996162 | 6337 | 3.8018837 | 6370 | 3.8041394 |
| 6305 | 3.7996851 | 6338 | 3.8019522 | 6371 | 3.8042076 |
| 6306 | 3.7997540 | 6339 | 3.8020208 | 6372 | 3.8042758 |
| 6307 | 3.7998228 | 6340 | 3.8020893 | 6373 | 3.8043439 |
| 6308 | 3.7998917 | 6341 | 3.8021578 | 6374 | 3.8044121 |
| 6309 | 3.7999605 | 6342 | 3.8022262 | 6375 | 3.8044802 |
| 6310 | 3.8000294 | 6343 | 3.8022947 | 6376 | 3.8045483 |
| 6311 | 3.8000982 | 6344 | 3.8023632 | 6377 | 3.8046164 |
| 6312 | 3.8001670 | 6345 | 3.8024316 | 6378 | 3.8046845 |
| 6313 | 3.8002358 | 6346 | 3.8025001 | 6379 | 3.8047526 |
| 6314 | 3.8003046 | 6347 | 3.8025685 | 6380 | 3.8048207 |
| 6315 | 3.8003734 | 6348 | 3.8026369 | 6381 | 3.8048887 |
| 6316 | 3.8004421 | 6349 | 3.8027053 | 6382 | 3.8049568 |
| 6317 | 3.8005109 | 6350 | 3.8027737 | 6383 | 3.8050248 |
| 6318 | 3.8005796 | 6351 | 3.8028421 | 6384 | 3.8050929 |
| 6319 | 3.8006484 | 6352 | 3.8029105 | 6385 | 3.8051609 |
| 6320 | 3.8007171 | 6353 | 3.8029789 | 6386 | 3.8052289 |
| 6321 | 3.8007858 | 6354 | 3.8030472 | 6387 | 3.8052969 |
| 6322 | 3.8008545 | 6355 | 3.8031156 | 6388 | 3.8053649 |
| 6323 | 3.8009232 | 6356 | 3.8031839 | 6389 | 3.8054329 |
| 6324 | 3.8009919 | 6357 | 3.8032522 | 6390 | 3.8055009 |
| 6325 | 3.8010605 | 6358 | 3.8033205 | 6391 | 3.8055688 |
| 6326 | 3.8011292 | 6359 | 3.8033888 | 6392 | 3.8056368 |
| 6327 | 3.8011978 | 6360 | 3.8034571 | 6393 | 3.8057047 |
| 6328 | 3.8012665 | 6361 | 3.8035254 | 6394 | 3.8057726 |
| 6329 | 3.8013351 | 6362 | 3.8035937 | 6395 | 3.8058405 |
| 6330 | 3.8014037 | 6363 | 3.8036619 | 6396 | 3.8059085 |
| 6331 | 3.8014723 | 6364 | 3.8037302 | 6397 | 3.8059764 |
| 6332 | 3.8015409 | 6365 | 3.8037984 | 6398 | 3.8060442 |
| 6333 | 3.8016095 | 6366 | 3.8038666 | 6399 | 3.8061121 |
| 6334 | 3.8016781 | 6367 | 3.8039348 | 6400 | 3.8061800 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6401 | 3.8062478 | 6434 | 3.8084811 | 6467 | 3.8107029 |
| 6402 | 3.8063157 | 6435 | 3.8085486 | 6468 | 3.8107700 |
| 6403 | 3.8063835 | 6436 | 3.8086160 | 6469 | 3.8108371 |
| 6404 | 3.8064513 | 6437 | 3.8086835 | 6470 | 3.8109043 |
| 6405 | 3.8065191 | 6438 | 3.8087510 | 6471 | 3.8109714 |
| 6406 | 3.8065869 | 6439 | 3.8088184 | 6472 | 3.8110385 |
| 6407 | 3.8066547 | 6440 | 3.8088859 | 6473 | 3.8111056 |
| 6408 | 3.8067225 | 6441 | 3.8089533 | 6474 | 3.8111722 |
| 6409 | 3.8067903 | 6442 | 3.8090207 | 6475 | 3.8112398 |
| 6410 | 3.8068580 | 6443 | 3.8090881 | 6476 | 3.8113068 |
| 6411 | 3.8069258 | 6444 | 3.8091555 | 6477 | 3.8113739 |
| 6412 | 3.8069935 | 6445 | 3.8092229 | 6478 | 3.8114409 |
| 6413 | 3.8070612 | 6446 | 3.8092903 | 6479 | 3.8115080 |
| 6414 | 3.8071290 | 6447 | 3.8093577 | 6480 | 3.8115750 |
| 6415 | 3.8071967 | 6448 | 3.8094250 | 6481 | 3.8116420 |
| 6416 | 3.8072644 | 6449 | 3.8094924 | 6482 | 3.8117090 |
| 6417 | 3.8073320 | 6450 | 3.8095597 | 6483 | 3.8117760 |
| 6418 | 3.8073997 | 6451 | 3.8096270 | 6484 | 3.8118430 |
| 6419 | 3.8074674 | 6452 | 3.8096944 | 6485 | 3.8119100 |
| 6420 | 3.8075350 | 6453 | 3.8097617 | 6486 | 3.8119769 |
| 6421 | 3.8076027 | 6454 | 3.8098290 | 6487 | 3.8120439 |
| 6422 | 3.8076703 | 6455 | 3.8098962 | 6488 | 3.8121108 |
| 6423 | 3.8077379 | 6456 | 3.8099635 | 6489 | 3.8121778 |
| 6424 | 3.8078055 | 6457 | 3.8100308 | 6490 | 3.8122447 |
| 6425 | 3.8078731 | 6458 | 3.8100980 | 6491 | 3.8123116 |
| 6426 | 3.8079407 | 6459 | 3.8101653 | 6492 | 3.8123785 |
| 6427 | 3.8080083 | 6460 | 3.8102325 | 6493 | 3.8124454 |
| 6428 | 3.8080759 | 6461 | 3.8102997 | 6494 | 3.8125123 |
| 6429 | 3.8081434 | 6462 | 3.8103670 | 6495 | 3.8125792 |
| 6430 | 3.8082110 | 6463 | 3.8104342 | 6496 | 3.8126460 |
| 6431 | 3.8082785 | 6464 | 3.8105013 | 6497 | 3.8127129 |
| 6432 | 3.8083460 | 6465 | 3.8105685 | 6498 | 3.8127797 |
| 6433 | 3.8084136 | 6466 | 3.8106357 | 6499 | 3.8128465 |
| 6434 | 3.8084811 | 6467 | 3.8107029 | 6500 | 3.8129134 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6501 | 3.8129802 | 6534 | 3.8151791 | 6567 | 3.8173670 |
| 6502 | 3.8130470 | 6535 | 3.8152456 | 6568 | 3.8174331 |
| 6503 | 3.8131138 | 6536 | 3.8153120 | 6569 | 3.8174993 |
| 6504 | 3.8131805 | 6537 | 3.8153785 | 6570 | 3.8175654 |
| 6505 | 3.8132473 | 6538 | 3.8154449 | 6571 | 3.8176315 |
| 6506 | 3.8133141 | 6539 | 3.8155113 | 6572 | 3.8176976 |
| 6507 | 3.8133808 | 6540 | 3.8155777 | 6573 | 3.8177636 |
| 6508 | 3.8134475 | 6541 | 3.8156441 | 6574 | 3.8178297 |
| 6509 | 3.8135143 | 6542 | 3.8157105 | 6575 | 3.8178958 |
| 6510 | 3.8135810 | 6543 | 3.8157769 | 6576 | 3.8179618 |
| 6511 | 3.8136477 | 6544 | 3.8158433 | 6577 | 3.8180278 |
| 6512 | 3.8137144 | 6545 | 3.8159096 | 6578 | 3.8180939 |
| 6513 | 3.8137811 | 6546 | 3.8159760 | 6579 | 3.8181599 |
| 6514 | 3.8138478 | 6547 | 3.8160423 | 6580 | 3.8182259 |
| 6515 | 3.8139144 | 6548 | 3.8161087 | 6581 | 3.8182919 |
| 6516 | 3.8139811 | 6549 | 3.8161750 | 6582 | 3.8183579 |
| 6517 | 3.8140477 | 6550 | 3.8162413 | 6583 | 3.8184239 |
| 6518 | 3.8141144 | 6551 | 3.8163076 | 6584 | 3.8184898 |
| 6519 | 3.8141810 | 6552 | 3.8163739 | 6585 | 3.8185558 |
| 6520 | 3.8142476 | 6553 | 3.8164402 | 6586 | 3.8186217 |
| 6521 | 3.8143142 | 6554 | 3.8165064 | 6587 | 3.8186877 |
| 6522 | 3.8143808 | 6555 | 3.8165727 | 6588 | 3.8187536 |
| 6523 | 3.8144474 | 6556 | 3.8166389 | 6589 | 3.8188195 |
| 6524 | 3.8145140 | 6557 | 3.8167052 | 6590 | 3.8188854 |
| 6525 | 3.8145805 | 6558 | 3.8167714 | 6591 | 3.8189513 |
| 6526 | 3.8146471 | 6559 | 3.8168376 | 6592 | 3.8190172 |
| 6527 | 3.8147136 | 6560 | 3.8169038 | 6593 | 3.8190831 |
| 6528 | 3.8147801 | 6561 | 3.8169700 | 6594 | 3.8191489 |
| 6529 | 3.8148467 | 6562 | 3.8170362 | 6595 | 3.8192148 |
| 6530 | 3.8149132 | 6563 | 3.8171024 | 6596 | 3.8192806 |
| 6531 | 3.8149797 | 6564 | 3.8171686 | 6597 | 3.8193465 |
| 6532 | 3.8150462 | 6565 | 3.8172347 | 6598 | 3.8194123 |
| 6533 | 3.8151127 | 6566 | 3.8173009 | 6599 | 3.8194781 |
| 6534 | 3.8151791 | 6567 | 3.8173670 | 6600 | 3.8195439 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6601 | 3.8196097 | 6634 | 3.8217755 | 6667 | 3.8239305 |
| 6602 | 3.8196755 | 6635 | 3.8218409 | 6668 | 3.8239956 |
| 6603 | 3.8197413 | 6636 | 3.8219064 | 6669 | 3.8240607 |
| 6604 | 3.8198071 | 6637 | 3.8219718 | 6670 | 3.8241258 |
| 6605 | 3.8198728 | 6638 | 3.8220372 | 6671 | 3.8241909 |
| 6606 | 3.8199386 | 6639 | 3.8221027 | 6672 | 3.8242560 |
| 6607 | 3.8200043 | 6640 | 3.8221681 | 6673 | 3.8243211 |
| 6608 | 3.8200700 | 6641 | 3.8222335 | 6674 | 3.8243862 |
| 6609 | 3.8201358 | 6642 | 3.8222989 | 6675 | 3.8244513 |
| 6610 | 3.8202015 | 6643 | 3.8223643 | 6676 | 3.8245163 |
| 6611 | 3.8202672 | 6644 | 3.8224296 | 6677 | 3.8245814 |
| 6612 | 3.8203328 | 6645 | 3.8224950 | 6678 | 3.8246464 |
| 6613 | 3.8203985 | 6646 | 3.8225603 | 6679 | 3.8247114 |
| 6614 | 3.8204642 | 6647 | 3.8226257 | 6680 | 3.8247765 |
| 6615 | 3.8205298 | 6648 | 3.8226910 | 6681 | 3.8248415 |
| 6616 | 3.8205955 | 6649 | 3.8227563 | 6682 | 3.8249065 |
| 6617 | 3.8206611 | 6650 | 3.8228216 | 6683 | 3.8249715 |
| 6618 | 3.8207268 | 6651 | 3.8228869 | 6684 | 3.8250364 |
| 6619 | 3.8207924 | 6652 | 3.8229522 | 6685 | 3.8251014 |
| 6620 | 3.8208580 | 6653 | 3.8230175 | 6686 | 3.8251664 |
| 6621 | 3.8209236 | 6654 | 3.8230828 | 6687 | 3.8252313 |
| 6622 | 3.8209892 | 6655 | 3.8231481 | 6688 | 3.8252963 |
| 6623 | 3.8210548 | 6656 | 3.8232133 | 6689 | 3.8253612 |
| 6624 | 3.8211203 | 6657 | 3.8232786 | 6690 | 3.8254261 |
| 6625 | 3.8211859 | 6658 | 3.8233438 | 6691 | 3.8254910 |
| 6626 | 3.8212514 | 6659 | 3.8234090 | 6692 | 3.8255559 |
| 6627 | 3.8213170 | 6660 | 3.8234742 | 6693 | 3.8256208 |
| 6628 | 3.8213825 | 6661 | 3.8235394 | 6694 | 3.8256857 |
| 6629 | 3.8214480 | 6662 | 3.8236046 | 6695 | 3.8257506 |
| 6630 | 3.8215135 | 6663 | 3.8236698 | 6696 | 3.8258154 |
| 6631 | 3.8215790 | 6664 | 3.8237350 | 6697 | 3.8258803 |
| 6632 | 3.8216445 | 6665 | 3.8238002 | 6698 | 3.8259451 |
| 6633 | 3.8217100 | 6666 | 3.8238653 | 6699 | 3.8260100 |
| 6634 | 3.8217755 | 6667 | 3.8239305 | 6700 | 3.8260748 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6701 | 3.8261396 | 6734 | 3.8282731 | 6767 | 3.8303962 |
| 6702 | 3.8262044 | 6735 | 3.8283376 | 6768 | 3.8304603 |
| 6703 | 3.8262692 | 6736 | 3.8284021 | 6769 | 3.8305245 |
| 6704 | 3.8263340 | 6737 | 3.8284665 | 6770 | 3.8305887 |
| 6705 | 3.8263988 | 6738 | 3.8285310 | 6771 | 3.8306528 |
| 6706 | 3.8264635 | 6739 | 3.8285955 | 6772 | 3.8307169 |
| 6707 | 3.8265283 | 6740 | 3.8286598 | 6773 | 3.8307811 |
| 6708 | 3.8265931 | 6741 | 3.8287243 | 6774 | 3.8308452 |
| 6709 | 3.8266578 | 6742 | 3.8287887 | 6775 | 3.8309093 |
| 6710 | 3.8267225 | 6743 | 3.8288532 | 6776 | 3.8309734 |
| 6711 | 3.8267872 | 6744 | 3.8289176 | 6777 | 3.8310375 |
| 6712 | 3.8268519 | 6745 | 3.8289820 | 6778 | 3.8311016 |
| 6713 | 3.8269166 | 6746 | 3.8290463 | 6779 | 3.8311656 |
| 6714 | 3.8269813 | 6747 | 3.8291107 | 6780 | 3.8312297 |
| 6715 | 3.8270460 | 6748 | 3.8291751 | 6781 | 3.8312937 |
| 6716 | 3.8271107 | 6749 | 3.8292394 | 6782 | 3.8313578 |
| 6717 | 3.8271753 | 6750 | 3.8293038 | 6783 | 3.8314218 |
| 6718 | 3.8272400 | 6751 | 3.8293681 | 6784 | 3.8314858 |
| 6719 | 3.8273046 | 6752 | 3.8294324 | 6785 | 3.8315499 |
| 6720 | 3.8273693 | 6753 | 3.8294967 | 6786 | 3.8316139 |
| 6721 | 3.8274339 | 6754 | 3.8295611 | 6787 | 3.8316778 |
| 6722 | 3.8274985 | 6755 | 3.8296254 | 6788 | 3.8317418 |
| 6723 | 3.8275631 | 6756 | 3.8296896 | 6789 | 3.8318058 |
| 6724 | 3.8276277 | 6757 | 3.8297539 | 6790 | 3.8318698 |
| 6725 | 3.8276923 | 6758 | 3.8298182 | 6791 | 3.8319337 |
| 6726 | 3.8277569 | 6759 | 3.8298824 | 6792 | 3.8319977 |
| 6727 | 3.8278214 | 6760 | 3.8299467 | 6793 | 3.8320616 |
| 6728 | 3.8278860 | 6761 | 3.8300109 | 6794 | 3.8321255 |
| 6729 | 3.8279505 | 6762 | 3.8300752 | 6795 | 3.8321895 |
| 6730 | 3.8280151 | 6763 | 3.8301394 | 6796 | 3.8322534 |
| 6731 | 3.8280796 | 6764 | 3.8302036 | 6797 | 3.8323173 |
| 6732 | 3.8281441 | 6765 | 3.8302678 | 6798 | 3.8323812 |
| 6733 | 3.8282086 | 6766 | 3.8303320 | 6799 | 3.8324450 |
| 6734 | 3.8282731 | 6767 | 3.8303962 | 6800 | 3.8325089 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6801 | 3.8325728 | 6834 | 3.8346750 | 6867 | 3.8367670 |
| 6802 | 3.8326366 | 6835 | 3.8347385 | 6868 | 3.8368303 |
| 6803 | 3.8327005 | 6836 | 3.8348021 | 6869 | 3.8368935 |
| 6804 | 3.8327643 | 6837 | 3.8348656 | 6870 | 3.8369567 |
| 6805 | 3.8328281 | 6838 | 3.8349291 | 6871 | 3.8370199 |
| 6806 | 3.8328919 | 6839 | 3.8349926 | 6872 | 3.8370832 |
| 6807 | 3.8329558 | 6840 | 3.8350561 | 6873 | 3.8371463 |
| 6808 | 3.8330195 | 6841 | 3.8351196 | 6874 | 3.8372095 |
| 6809 | 3.8330833 | 6842 | 3.8351831 | 6875 | 3.8372727 |
| 6810 | 3.8331471 | 6843 | 3.8352465 | 6876 | 3.8373359 |
| 6811 | 3.8332109 | 6844 | 3.8353100 | 6877 | 3.8373990 |
| 6812 | 3.8332746 | 6845 | 3.8353735 | 6878 | 3.8374622 |
| 6813 | 3.8333384 | 6846 | 3.8354369 | 6879 | 3.8375253 |
| 6814 | 3.8334021 | 6847 | 3.8355003 | 6880 | 3.8375884 |
| 6815 | 3.8334659 | 6848 | 3.8355638 | 6881 | 3.8376516 |
| 6816 | 3.8335296 | 6849 | 3.8356272 | 6882 | 3.8377147 |
| 6817 | 3.8335933 | 6850 | 3.8356906 | 6883 | 3.8377778 |
| 6818 | 3.8336570 | 6851 | 3.8357540 | 6884 | 3.8378409 |
| 6819 | 3.8337207 | 6852 | 3.8358174 | 6885 | 3.8379039 |
| 6820 | 3.8337844 | 6853 | 3.8358807 | 6886 | 3.8379670 |
| 6821 | 3.8338480 | 6854 | 3.8359441 | 6887 | 3.8380301 |
| 6822 | 3.8339117 | 6855 | 3.8360075 | 6888 | 3.8380931 |
| 6823 | 3.8339754 | 6856 | 3.8360708 | 6889 | 3.8381562 |
| 6824 | 3.8340390 | 6857 | 3.8361341 | 6890 | 3.8382192 |
| 6825 | 3.8341027 | 6858 | 3.8361975 | 6891 | 3.8382822 |
| 6826 | 3.8341663 | 6859 | 3.8362608 | 6892 | 3.8383453 |
| 6827 | 3.8342299 | 6860 | 3.8363241 | 6893 | 3.8384083 |
| 6828 | 3.8342935 | 6861 | 3.8363874 | 6894 | 3.8384713 |
| 6829 | 3.8343571 | 6862 | 3.8364507 | 6895 | 3.8385343 |
| 6830 | 3.8344207 | 6863 | 3.8365140 | 6896 | 3.8385973 |
| 6831 | 3.8344843 | 6864 | 3.8365773 | 6897 | 3.8386602 |
| 6832 | 3.8345479 | 6865 | 3.8366405 | 6898 | 3.8387232 |
| 6833 | 3.8346114 | 6866 | 3.8367038 | 6899 | 3.8387861 |
| 6834 | 3.8346750 | 6867 | 3.8367670 | 6900 | 3.8388491 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 6901 | 3.8389120 | 6934 | 3.8409838 | 6967 | 3.8430458 |
| 6902 | 3.8389750 | 6935 | 3.8410465 | 6968 | 3.8431081 |
| 6903 | 3.8390379 | 6936 | 3.8411091 | 6969 | 3.8431705 |
| 6904 | 3.8391008 | 6937 | 3.8411717 | 6970 | 3.8432328 |
| 6905 | 3.8391637 | 6938 | 3.8412343 | 6971 | 3.8432951 |
| 6906 | 3.8392266 | 6939 | 3.8412969 | 6972 | 3.8433574 |
| 6907 | 3.8392895 | 6940 | 3.8413595 | 6973 | 3.8434197 |
| 6908 | 3.8393523 | 6941 | 3.8414220 | 6974 | 3.8434819 |
| 6909 | 3.8394152 | 6942 | 3.8414846 | 6975 | 3.8435442 |
| 6910 | 3.8394780 | 6943 | 3.8415472 | 6976 | 3.8436065 |
| 6911 | 3.8395409 | 6944 | 3.8416097 | 6977 | 3.8436687 |
| 6912 | 3.8396037 | 6945 | 3.8416722 | 6978 | 3.8437310 |
| 6913 | 3.8396666 | 6946 | 3.8417348 | 6979 | 3.8437932 |
| 6914 | 3.8397294 | 6947 | 3.8417973 | 6980 | 3.8438554 |
| 6915 | 3.8397922 | 6948 | 3.8418598 | 6981 | 3.8439176 |
| 6916 | 3.8398550 | 6949 | 3.8419223 | 6982 | 3.8439798 |
| 6917 | 3.8399178 | 6950 | 3.8419848 | 6983 | 3.8440420 |
| 6918 | 3.8399806 | 6951 | 3.8420473 | 6984 | 3.8441042 |
| 6919 | 3.8400433 | 6952 | 3.8421098 | 6985 | 3.8441664 |
| 6920 | 3.8401061 | 6953 | 3.8421722 | 6986 | 3.8442286 |
| 6921 | 3.8401688 | 6954 | 3.8422347 | 6987 | 3.8442907 |
| 6922 | 3.8402316 | 6955 | 3.8422971 | 6988 | 3.8443529 |
| 6923 | 3.8402943 | 6956 | 3.8423596 | 6989 | 3.8444150 |
| 6924 | 3.8403571 | 6957 | 3.8424220 | 6990 | 3.8444772 |
| 6925 | 3.8404198 | 6958 | 3.8424844 | 6991 | 3.8445393 |
| 6726 | 3.8404825 | 6959 | 3.8425468 | 6992 | 3.8446014 |
| 6927 | 3.8405452 | 6960 | 3.8426092 | 6993 | 3.8446635 |
| 6928 | 3.8406079 | 6961 | 3.8426716 | 6994 | 3.8447256 |
| 6929 | 3.8406706 | 6962 | 3.8427340 | 6995 | 3.8447877 |
| 6930 | 3.8407332 | 6963 | 3.8427964 | 6996 | 3.8448498 |
| 6931 | 3.8407959 | 6964 | 3.8428588 | 6997 | 3.8449119 |
| 6932 | 3.8408586 | 6965 | 3.8429212 | 6998 | 3.8449739 |
| 6933 | 3.8409212 | 6966 | 3.8429835 | 6999 | 3.8450360 |
| 6934 | 3.8409838 | 6967 | 3.8430458 | 7000 | 3.8450980 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7001 | 3.8451601 | 7034 | 3.8472024 | 7067 | 3.8492351 |
| 7002 | 3.8452221 | 7035 | 3.8472641 | 7068 | 3.8492965 |
| 7003 | 3.8452841 | 7036 | 3.8473258 | 7069 | 3.8493580 |
| 7004 | 3.8453461 | 7037 | 3.8473876 | 7070 | 3.8494194 |
| 7005 | 3.8454081 | 7038 | 3.8474493 | 7071 | 3.8494808 |
| 7006 | 3.8454701 | 7039 | 3.8475110 | 7072 | 3.8495423 |
| 7007 | 3.8455321 | 7040 | 3.8475727 | 7073 | 3.8496037 |
| 7008 | 3.8455941 | 7041 | 3.8476343 | 7074 | 3.8496651 |
| 7009 | 3.8456561 | 7042 | 3.8476960 | 7075 | 3.8497264 |
| 7010 | 3.8457180 | 7043 | 3.8477577 | 7076 | 3.8497878 |
| 7011 | 3.8457800 | 7044 | 3.8478193 | 7077 | 3.8498492 |
| 7012 | 3.8458419 | 7045 | 3.8478810 | 7078 | 3.8499106 |
| 7013 | 3.8459038 | 7046 | 3.8479426 | 7079 | 3.8499719 |
| 7014 | 3.8459658 | 7047 | 3.8480043 | 7080 | 3.8500333 |
| 7015 | 3.8460277 | 7048 | 3.8480659 | 7081 | 3.8500946 |
| 7016 | 3.8460896 | 7049 | 3.8481275 | 7082 | 3.8501559 |
| 7017 | 3.8461515 | 7050 | 3.8481891 | 7083 | 3.8502172 |
| 7018 | 3.8462134 | 7051 | 3.8482507 | 7084 | 3.8502786 |
| 7019 | 3.8462752 | 7052 | 3.8483123 | 7085 | 3.8503399 |
| 7020 | 3.8463371 | 7053 | 3.8483739 | 7086 | 3.8504011 |
| 7021 | 3.8463990 | 7054 | 3.8484355 | 7087 | 3.8504624 |
| 7022 | 3.8464608 | 7055 | 3.8484970 | 7088 | 3.8505237 |
| 7023 | 3.8465227 | 7056 | 3.8485586 | 7089 | 3.8505850 |
| 7024 | 3.8465845 | 7057 | 3.8486201 | 7090 | 3.8506462 |
| 7025 | 3.8466463 | 7058 | 3.8486817 | 7091 | 3.8507075 |
| 7026 | 3.8467081 | 7059 | 3.8487432 | 7092 | 3.8507687 |
| 7027 | 3.8467700 | 7060 | 3.8488047 | 7093 | 3.8508300 |
| 7028 | 3.8468318 | 7061 | 3.8488662 | 7094 | 3.8508912 |
| 7029 | 3.8468935 | 7062 | 3.8489277 | 7095 | 3.8509524 |
| 7030 | 3.8469553 | 7063 | 3.8489892 | 7096 | 3.8510136 |
| 7031 | 3.8470171 | 7064 | 3.8490507 | 7097 | 3.8510748 |
| 7032 | 3.8470789 | 7065 | 3.8491122 | 7098 | 3.8511360 |
| 7033 | 3.8471406 | 7066 | 3.8491736 | 7099 | 3.8511972 |
| 7034 | 3.8472024 | 7067 | 3.8492351 | 7100 | 3.8512583 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7101 | 3.8513195 | 7134 | 3.8533331 | 7167 | 3.8553374 |
| 7102 | 3.8513807 | 7135 | 3.8533940 | 7168 | 3.8553980 |
| 7103 | 3.8514418 | 7136 | 3.8534548 | 7169 | 3.8554586 |
| 7104 | 3.8515030 | 7137 | 3.8535157 | 7170 | 3.8555192 |
| 7105 | 3.8515641 | 7138 | 3.8535765 | 7171 | 3.8555797 |
| 7106 | 3.8516252 | 7139 | 3.8536374 | 7172 | 3.8556403 |
| 7107 | 3.8516863 | 7140 | 3.8536982 | 7173 | 3.8557008 |
| 7108 | 3.8517474 | 7141 | 3.8537590 | 7174 | 3.8557614 |
| 7109 | 3.8518085 | 7142 | 3.8538198 | 7175 | 3.8558219 |
| 7110 | 3.8518696 | 7143 | 3.8538806 | 7176 | 3.8558824 |
| 7111 | 3.8519307 | 7144 | 3.8539414 | 7177 | 3.8559429 |
| 7112 | 3.8519917 | 7145 | 3.8540022 | 7178 | 3.8560035 |
| 7113 | 3.8520528 | 7146 | 3.8540630 | 7179 | 3.8560640 |
| 7114 | 3.8521139 | 7147 | 3.8541238 | 7180 | 3.8561244 |
| 7115 | 3.8521749 | 7148 | 3.8541845 | 7181 | 3.8561849 |
| 7116 | 3.8522359 | 7149 | 3.8542453 | 7182 | 3.8562454 |
| 7117 | 3.8522970 | 7150 | 3.8543060 | 7183 | 3.8563059 |
| 7118 | 3.8523580 | 7151 | 3.8543668 | 7184 | 3.8563663 |
| 7119 | 3.8524190 | 7152 | 3.8544275 | 7185 | 3.8564268 |
| 7120 | 3.8524800 | 7153 | 3.8544882 | 7186 | 3.8564872 |
| 7121 | 3.8525410 | 7154 | 3.8545489 | 7187 | 3.8565476 |
| 7122 | 3.8526020 | 7155 | 3.8546096 | 7188 | 3.8566081 |
| 7123 | 3.8526629 | 7156 | 3.8546703 | 7189 | 3.8566685 |
| 7124 | 3.8527239 | 7157 | 3.8547310 | 7190 | 3.8567289 |
| 7125 | 3.8527849 | 7158 | 3.8547917 | 7191 | 3.8567893 |
| 7126 | 3.8528458 | 7159 | 3.8548524 | 7192 | 3.8568497 |
| 7127 | 3.8529068 | 7160 | 3.8549130 | 7193 | 3.8569101 |
| 7128 | 3.8529677 | 7161 | 3.8549737 | 7194 | 3.8569704 |
| 7129 | 3.8530286 | 7162 | 3.8550343 | 7195 | 3.8570308 |
| 7130 | 3.8530895 | 7163 | 3.8550950 | 7196 | 3.8570912 |
| 7131 | 3.8531504 | 7164 | 3.8551556 | 7197 | 3.8571515 |
| 7132 | 3.8532113 | 7165 | 3.8552162 | 7198 | 3.8572118 |
| 7133 | 3.8532722 | 7166 | 3.8552768 | 7199 | 3.8572722 |
| 7134 | 3.8533331 | 7167 | 3.8553374 | 7200 | 3.8573325 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7201 | 3.8573928 | 7234 | 3.8593785 | 7267 | 3.8613552 |
| 7202 | 3.8574531 | 7235 | 3.8594385 | 7268 | 3.8614149 |
| 7203 | 3.8575134 | 7236 | 3.8594986 | 7269 | 3.8614747 |
| 7204 | 3.8575737 | 7237 | 3.8595586 | 7270 | 3.8615344 |
| 7205 | 3.8576340 | 7238 | 3.8596186 | 7271 | 3.8615941 |
| 7206 | 3.8576943 | 7239 | 3.8596786 | 7272 | 3.8616539 |
| 7207 | 3.8577545 | 7240 | 3.8597386 | 7273 | 3.8617136 |
| 7208 | 3.8578148 | 7241 | 3.8597985 | 7274 | 3.8617733 |
| 7209 | 3.8578750 | 7242 | 3.8598585 | 7275 | 3.8618330 |
| 7210 | 3.8579353 | 7243 | 3.8599185 | 7276 | 3.8618927 |
| 7211 | 3.8579955 | 7244 | 3.8599784 | 7277 | 3.8619524 |
| 7212 | 3.8580557 | 7245 | 3.8600384 | 7278 | 3.8620120 |
| 7213 | 3.8581159 | 7246 | 3.8600983 | 7279 | 3.8620717 |
| 7214 | 3.8581761 | 7247 | 3.8601583 | 7280 | 3.8621314 |
| 7215 | 3.8582363 | 7248 | 3.8602182 | 7281 | 3.8621910 |
| 7216 | 3.8582965 | 7249 | 3.8602781 | 7282 | 3.8622507 |
| 7217 | 3.8583567 | 7250 | 3.8603380 | 7283 | 3.8623103 |
| 7218 | 3.8584169 | 7251 | 3.8603979 | 7284 | 3.8623699 |
| 7219 | 3.8584770 | 7252 | 3.8604578 | 7285 | 3.8624296 |
| 7220 | 3.8585372 | 7253 | 3.8605177 | 7286 | 3.8624892 |
| 7221 | 3.8585973 | 7254 | 3.8605776 | 7287 | 3.8625488 |
| 7222 | 3.8586575 | 7255 | 3.8606374 | 7288 | 3.8626084 |
| 7223 | 3.8587176 | 7256 | 3.8606973 | 7289 | 3.8626679 |
| 7224 | 3.8587777 | 7257 | 3.8607571 | 7290 | 3.8627275 |
| 7225 | 3.8588379 | 7258 | 3.8608170 | 7291 | 3.8627871 |
| 7226 | 3.8588980 | 7259 | 3.8608768 | 7292 | 3.8628467 |
| 7227 | 3.8589581 | 7260 | 3.8609366 | 7293 | 3.8629062 |
| 7228 | 3.8590181 | 7261 | 3.8609964 | 7294 | 3.8629658 |
| 7229 | 3.8590782 | 7262 | 3.8610562 | 7295 | 3.8630253 |
| 7230 | 3.8591383 | 7263 | 3.8611160 | 7296 | 3.8630848 |
| 7231 | 3.8591984 | 7264 | 3.8611758 | 7297 | 3.8631443 |
| 7232 | 3.8592584 | 7265 | 3.8612356 | 7298 | 3.8632039 |
| 7233 | 3.8593185 | 7266 | 3.8612954 | 7299 | 3.8632634 |
| 7234 | 3.8593785 | 7267 | 3.8613552 | 7300 | 3.8633229 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7301 | 3.8633823 | 7334 | 3.8653409 | 7367 | 3.8672907 |
| 7302 | 3.8634418 | 7335 | 3.8654001 | 7368 | 3.8673496 |
| 7303 | 3.8635013 | 7336 | 3.8654593 | 7369 | 3.8674086 |
| 7304 | 3.8635608 | 7337 | 3.8655185 | 7370 | 3.8674675 |
| 7305 | 3.8636202 | 7338 | 3.8655777 | 7371 | 3.8675264 |
| 7306 | 3.8636797 | 7339 | 3.8656369 | 7372 | 3.8675853 |
| 7307 | 3.8637391 | 7340 | 3.8656961 | 7373 | 3.8676442 |
| 7308 | 3.8637985 | 7341 | 3.8657552 | 7374 | 3.8677031 |
| 7309 | 3.8638580 | 7342 | 3.8658144 | 7375 | 3.8677620 |
| 7310 | 3.8639174 | 7343 | 3.8658735 | 7376 | 3.8678209 |
| 7311 | 3.8639768 | 7344 | 3.8659327 | 7377 | 3.8678798 |
| 7312 | 3.8640362 | 7345 | 3.8659918 | 7378 | 3.8679387 |
| 7313 | 3.8640956 | 7346 | 3.8660509 | 7379 | 3.8679975 |
| 7314 | 3.8641550 | 7347 | 3.8661100 | 7380 | 3.8680564 |
| 7315 | 3.8642143 | 7348 | 3.8661691 | 7381 | 3.8681152 |
| 7316 | 3.8642737 | 7349 | 3.8662282 | 7382 | 3.8681740 |
| 7317 | 3.8643331 | 7350 | 3.8662873 | 7383 | 3.8682329 |
| 7318 | 3.8643924 | 7351 | 3.8663464 | 7384 | 3.8682917 |
| 7319 | 3.8644517 | 7352 | 3.8664055 | 7385 | 3.8683505 |
| 7320 | 3.8645111 | 7353 | 3.8664646 | 7386 | 3.8684093 |
| 7321 | 3.8645704 | 7354 | 3.8665236 | 7387 | 3.8684681 |
| 7322 | 3.8646297 | 7355 | 3.8665827 | 7388 | 3.8685269 |
| 7323 | 3.8646890 | 7356 | 3.8666417 | 7389 | 3.8685857 |
| 7324 | 3.8647483 | 7357 | 3.8667008 | 7390 | 3.8686444 |
| 7325 | 3.8648076 | 7358 | 3.8667598 | 7391 | 3.8687032 |
| 7326 | 3.8648669 | 7359 | 3.8668188 | 7392 | 3.8687620 |
| 7327 | 3.8649262 | 7360 | 3.8668778 | 7393 | 3.8688207 |
| 7328 | 3.8649855 | 7361 | 3.8669368 | 7394 | 3.8688794 |
| 7329 | 3.8650447 | 7362 | 3.8669958 | 7395 | 3.8689382 |
| 7330 | 3.8651040 | 7363 | 3.8670548 | 7396 | 3.8689969 |
| 7331 | 3.8651632 | 7364 | 3.8671138 | 7397 | 3.8690556 |
| 7332 | 3.8652225 | 7365 | 3.8671728 | 7398 | 3.8691143 |
| 7333 | 3.8652817 | 7366 | 3.8672317 | 7399 | 3.8691730 |
| 7334 | 3.8653409 | 7367 | 3.8672907 | 7400 | 3.8692317 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7401 | 3.8692904 | 7434 | 3.8712226 | 7467 | 3.8731462 |
| 7402 | 3.8693491 | 7435 | 3.8712810 | 7468 | 3.8732043 |
| 7403 | 3.8694077 | 7436 | 3.8713394 | 7469 | 3.8732625 |
| 7404 | 3.8694664 | 7437 | 3.8713978 | 7470 | 3.8733206 |
| 7405 | 3.8695251 | 7438 | 3.8714562 | 7471 | 3.8733787 |
| 7406 | 3.8695837 | 7439 | 3.8715146 | 7472 | 3.8734369 |
| 7407 | 3.8696423 | 7440 | 3.8715729 | 7473 | 3.8734950 |
| 7408 | 3.8697010 | 7441 | 3.8716313 | 7474 | 3.8735531 |
| 7409 | 3.8697596 | 7442 | 3.8716897 | 7475 | 3.8736112 |
| 7410 | 3.8698182 | 7443 | 3.8717480 | 7476 | 3.8736693 |
| 7411 | 3.8698768 | 7444 | 3.8718064 | 7477 | 3.8737274 |
| 7412 | 3.8699354 | 7445 | 3.8718647 | 7478 | 3.8737855 |
| 7413 | 3.8699940 | 7446 | 3.8719230 | 7479 | 3.8738435 |
| 7414 | 3.8700526 | 7447 | 3.8719814 | 7480 | 3.8739016 |
| 7415 | 3.8701112 | 7448 | 3.8720397 | 7481 | 3.8739597 |
| 7416 | 3.8701697 | 7449 | 3.8720980 | 7482 | 3.8740177 |
| 7417 | 3.8702283 | 7450 | 3.8721563 | 7483 | 3.8740757 |
| 7418 | 3.8702868 | 7451 | 3.8722146 | 7484 | 3.8741338 |
| 7419 | 3.8703454 | 7452 | 3.8722728 | 7485 | 3.8741918 |
| 7420 | 3.8704039 | 7453 | 3.8723311 | 7486 | 3.8742498 |
| 7421 | 3.8704624 | 7454 | 3.8723894 | 7487 | 3.8743078 |
| 7422 | 3.8705209 | 7455 | 3.8724476 | 7488 | 3.8743658 |
| 7423 | 3.8705795 | 7456 | 3.8725059 | 7489 | 3.8744238 |
| 7424 | 3.8706380 | 7457 | 3.8725641 | 7490 | 3.8744818 |
| 7425 | 3.8706965 | 7458 | 3.8726224 | 7491 | 3.8745398 |
| 7426 | 3.8707549 | 7459 | 3.8726806 | 7492 | 3.8745978 |
| 7427 | 3.8708134 | 7460 | 3.8727388 | 7493 | 3.8746557 |
| 7428 | 3.8708719 | 7461 | 3.8727970 | 7494 | 3.8747137 |
| 7429 | 3.8709304 | 7462 | 3.8728552 | 7495 | 3.8747716 |
| 7430 | 3.8709888 | 7463 | 3.8729134 | 7496 | 3.8748296 |
| 7431 | 3.8710473 | 7464 | 3.8729716 | 7497 | 3.8748875 |
| 7432 | 2.8711057 | 7465 | 3.8730298 | 7498 | 3.8749454 |
| 7433 | 3.8711641 | 7466 | 3.8730880 | 7499 | 3.8750034 |
| 7434 | 3.8712226 | 7467 | 3.8731462 | 7500 | 3.8750613 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7501 | 3.8751192 | 7534 | 3.8770256 | 7567 | 3.8789237 |
| 7502 | 3.8751771 | 7535 | 3.8770833 | 7568 | 3.8789811 |
| 7503 | 3.8752349 | 7536 | 3.8771409 | 7569 | 3.8790385 |
| 7504 | 3.8752928 | 7537 | 3.8771985 | 7570 | 3.8790959 |
| 7505 | 3.8753507 | 7538 | 3.8772561 | 7571 | 3.8791532 |
| 7506 | 3.8754086 | 7539 | 3.8773137 | 7572 | 3.8792106 |
| 7507 | 3.8754664 | 7540 | 3.8773713 | 7573 | 3.8792680 |
| 7508 | 3.8755243 | 7541 | 3.8774289 | 7574 | 3.8793253 |
| 7509 | 3.8755821 | 7542 | 3.8774865 | 7575 | 3.8793826 |
| 7510 | 3.8756399 | 7543 | 3.8775441 | 7576 | 3.8794400 |
| 7511 | 3.8756978 | 7544 | 3.8776017 | 7577 | 3.8794973 |
| 7512 | 3.8757556 | 7545 | 3.8776592 | 7578 | 3.8795546 |
| 7513 | 3.8758134 | 7546 | 3.8777168 | 7579 | 3.8796119 |
| 7514 | 3.8758712 | 7547 | 3.8777743 | 7580 | 3.8796692 |
| 7515 | 3.8759290 | 7548 | 3.8778319 | 7581 | 3.8797265 |
| 7516 | 3.8759868 | 7549 | 3.8778894 | 7582 | 3.8797838 |
| 7517 | 3.8760445 | 7550 | 3.8779469 | 7583 | 3.8798411 |
| 7518 | 3.8761023 | 7551 | 3.8780045 | 7584 | 3.8798983 |
| 7519 | 3.8761601 | 7552 | 3.8780620 | 7585 | 3.8799556 |
| 7520 | 3.8762178 | 7553 | 3.8781195 | 7586 | 3.8800128 |
| 7521 | 3.8762756 | 7554 | 3.8781770 | 7587 | 3.8800701 |
| 7522 | 3.8763333 | 7555 | 3.8782345 | 7588 | 3.8801273 |
| 7523 | 3.8763911 | 7556 | 3.8782919 | 7589 | 3.8801846 |
| 7524 | 3.8764488 | 7557 | 3.8783494 | 7590 | 3.8802418 |
| 7525 | 3.8765065 | 7558 | 3.8784069 | 7591 | 3.8802990 |
| 7526 | 3.8765642 | 7559 | 3.8784643 | 7592 | 3.8803562 |
| 7527 | 3.8766219 | 7560 | 3.8785218 | 7593 | 3.8804134 |
| 7528 | 3.8766796 | 7561 | 3.8785792 | 7594 | 3.8804706 |
| 7529 | 3.8767373 | 7562 | 3.8786367 | 7595 | 3.8805278 |
| 7530 | 3.8767950 | 7563 | 3.8786941 | 7596 | 3.8805850 |
| 7531 | 3.8768526 | 7564 | 3.8787515 | 7597 | 3.8806421 |
| 7532 | 3.8769103 | 7565 | 3.8788089 | 7598 | 3.8806993 |
| 7533 | 3.8769680 | 7566 | 3.8788663 | 7599 | 3.8807564 |
| 7534 | 3.8770256 | 7567 | 3.8789237 | 7600 | 3.8808136 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7601 | 3.8808707 | 7634 | 3.8827522 | 7667 | 3.8846255 |
| 7602 | 3.8809279 | 7635 | 3.8828090 | 7668 | 3.8846821 |
| 7603 | 3.8809850 | 7636 | 3.8828659 | 7669 | 3.8847387 |
| 7604 | 3.8810421 | 7637 | 3.8829228 | 7670 | 3.8847954 |
| 7605 | 3.8810992 | 7638 | 3.8829797 | 7671 | 3.8848520 |
| 7606 | 3.8811563 | 7639 | 3.8830365 | 7672 | 3.8849086 |
| 7607 | 3.8812134 | 7640 | 3.8830934 | 7673 | 3.8849652 |
| 7608 | 3.8812705 | 7641 | 3.8831502 | 7674 | 3.8850218 |
| 7609 | 3.8813276 | 7642 | 3.8832070 | 7675 | 3.8850784 |
| 7610 | 3.8813847 | 7643 | 3.8832639 | 7676 | 3.8851350 |
| 7611 | 3.8814417 | 7644 | 3.8833207 | 7677 | 3.8851915 |
| 7612 | 3.8814988 | 7645 | 3.8833775 | 7678 | 3.8852481 |
| 7613 | 3.8815558 | 7646 | 3.8834343 | 7679 | 3.8853047 |
| 7614 | 3.8816129 | 7647 | 3.8834911 | 7680 | 3.8853612 |
| 7615 | 3.8816699 | 7648 | 3.8835479 | 7681 | 3.8854178 |
| 7616 | 3.8817269 | 7649 | 3.8836047 | 7682 | 3.8854743 |
| 7617 | 3.8817840 | 7650 | 3.8836614 | 7683 | 3.8855308 |
| 7618 | 3.8818410 | 7651 | 3.8837182 | 7684 | 3.8855874 |
| 7619 | 3.8818980 | 7652 | 3.8837750 | 7685 | 3.8856439 |
| 7620 | 3.8819550 | 7653 | 3.8838317 | 7686 | 3.8857004 |
| 7621 | 3.8820120 | 7654 | 3.8838885 | 7687 | 3.8857569 |
| 7622 | 3.8820689 | 7655 | 3.8839452 | 7688 | 3.8858134 |
| 7623 | 3.8821259 | 7656 | 3.8840019 | 7689 | 3.8858699 |
| 7624 | 3.8821829 | 7657 | 3.8840586 | 7690 | 3.8859263 |
| 7625 | 3.8822398 | 7658 | 3.8841154 | 7691 | 3.8859828 |
| 7626 | 3.8822968 | 7659 | 3.8841721 | 7692 | 3.8860393 |
| 7627 | 3.8823537 | 7660 | 3.8842288 | 7693 | 3.8860957 |
| 7628 | 3.8824107 | 7661 | 3.8842855 | 7694 | 3.8861522 |
| 7629 | 3.8824676 | 7662 | 3.8843421 | 7695 | 3.8862086 |
| 7630 | 3.8825245 | 7663 | 3.8843988 | 7696 | 3.8862651 |
| 7631 | 3.8825815 | 7664 | 3.8844555 | 7697 | 3.8863215 |
| 7632 | 3.8826384 | 7665 | 3.8845122 | 7698 | 3.8863779 |
| 7633 | 3.8826953 | 7666 | 3.8845688 | 7699 | 3.8864343 |
| 7634 | 3.8827522 | 7667 | 3.8846255 | 7600 | 3.8864907 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7701 | 3.8865471 | 7734 | 3.8884042 | 7767 | 3.8902533 |
| 7702 | 3.8866035 | 7735 | 3.8884603 | 7768 | 3.8903092 |
| 7703 | 3.8866599 | 7736 | 3.8885165 | 7769 | 3.8903651 |
| 7704 | 3.8867163 | 7737 | 3.8885726 | 7770 | 3.8904210 |
| 7705 | 3.8867726 | 7738 | 3.8886287 | 7771 | 3.8904769 |
| 7706 | 3.8868290 | 7739 | 3.8886848 | 7772 | 3.8905328 |
| 7707 | 3.8868854 | 7740 | 3.8887410 | 7773 | 3.8905887 |
| 7708 | 3.8869417 | 7741 | 3.8887971 | 7774 | 3.8906445 |
| 7709 | 3.8869980 | 7742 | 3.8888532 | 7775 | 3.8907004 |
| 7710 | 3.8870544 | 7743 | 3.8889093 | 7776 | 3.8907563 |
| 7711 | 3.8871107 | 7744 | 3.8889653 | 7777 | 3.8908121 |
| 7712 | 3.8871670 | 7745 | 3.8890214 | 7778 | 3.8908679 |
| 7713 | 3.8872233 | 7746 | 3.8890775 | 7779 | 3.8909238 |
| 7714 | 3.8872796 | 7747 | 3.8891336 | 7780 | 3.8909796 |
| 7715 | 3.8873359 | 7748 | 3.8891896 | 7781 | 3.8910354 |
| 7716 | 3.8873922 | 7749 | 3.8892457 | 7782 | 3.8910912 |
| 7717 | 3.8874485 | 7750 | 3.8893017 | 7783 | 3.8911470 |
| 7718 | 3.8875048 | 7751 | 3.8893577 | 7784 | 3.8912028 |
| 7719 | 3.8875610 | 7752 | 3.8894138 | 7785 | 3.8912586 |
| 7720 | 3.8876173 | 7753 | 3.8894698 | 7786 | 3.8913144 |
| 7721 | 3.8876736 | 7754 | 3.8895258 | 7787 | 3.8913702 |
| 7722 | 3.8877298 | 7755 | 3.8895818 | 7788 | 3.8914259 |
| 7723 | 3.8877860 | 7756 | 3.8896378 | 7789 | 3.8914817 |
| 7724 | 3.8878423 | 7757 | 3.8896938 | 7790 | 3.8915375 |
| 7725 | 3.8878985 | 7758 | 3.8897498 | 7791 | 3.8915932 |
| 7726 | 3.8879547 | 7759 | 3.8898058 | 7792 | 3.8916489 |
| 7727 | 3.8880109 | 7760 | 3.8898617 | 7793 | 3.8917047 |
| 7728 | 3.8880671 | 7761 | 3.8899177 | 7794 | 3.8917604 |
| 7729 | 3.8881233 | 7762 | 3.8899736 | 7795 | 3.8918161 |
| 7730 | 3.8881795 | 7763 | 3.8900296 | 7796 | 3.8918718 |
| 7731 | 3.8882357 | 7764 | 3.8900855 | 7797 | 3.8919275 |
| 7732 | 3.8882918 | 7765 | 3.8901415 | 7798 | 3.8919832 |
| 7733 | 3.8883480 | 7766 | 3.8901974 | 7799 | 3.8920389 |
| 7734 | 3.8884042 | 7767 | 3.8902533 | 7800 | 3.8920946 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7801 | 3.8921503 | 7834 | 3.8939836 | 7867 | 3.8958092 |
| 7802 | 3.8922059 | 7835 | 3.8940390 | 7868 | 3.8958644 |
| 7803 | 3.8922616 | 7836 | 3.8940944 | 7869 | 3.8959195 |
| 7804 | 3.8923173 | 7837 | 3.8941498 | 7870 | 3.8959747 |
| 7805 | 3.8923729 | 7838 | 3.8942053 | 7871 | 3.8960299 |
| 7806 | 3.8924285 | 7839 | 3.8942607 | 7872 | 3.8960851 |
| 7807 | 3.8924842 | 7840 | 3.8943161 | 7873 | 3.8961403 |
| 7808 | 3.8925398 | 7841 | 3.8943715 | 7874 | 3.8961954 |
| 7809 | 3.8925954 | 7842 | 3.8944268 | 7875 | 3.8962506 |
| 7810 | 3.8926510 | 7843 | 3.8944822 | 7876 | 3.8963057 |
| 7811 | 3.8927066 | 7844 | 3.8945376 | 7877 | 3.8963608 |
| 7812 | 3.8927622 | 7845 | 3.8945929 | 7878 | 3.8964160 |
| 7813 | 3.8928178 | 7846 | 3.8946483 | 7879 | 3.8964711 |
| 7814 | 3.8928734 | 7847 | 3.8947037 | 7880 | 3.8965262 |
| 7815 | 3.8929290 | 7848 | 3.8947590 | 7881 | 3.8965813 |
| 7816 | 3.8929846 | 7849 | 3.8948143 | 7882 | 3.8966364 |
| 7817 | 3.8930401 | 7850 | 3.8948697 | 7883 | 3.8966915 |
| 7818 | 3.8930957 | 7851 | 3.8949250 | 7884 | 3.8967466 |
| 7819 | 3.8931512 | 7852 | 3.8949803 | 7885 | 3.8968017 |
| 7820 | 3.8932068 | 7853 | 3.8950356 | 7886 | 3.8968568 |
| 7821 | 3.8932623 | 7854 | 3.8950909 | 7887 | 3.8969118 |
| 7822 | 3.8933178 | 7855 | 3.8951462 | 7888 | 3.8969669 |
| 7823 | 3.8933733 | 7856 | 3.8952015 | 7889 | 3.8970220 |
| 7824 | 3.8934288 | 7857 | 3.8952568 | 7890 | 3.8970770 |
| 7825 | 3.8934843 | 7858 | 3.8953120 | 7891 | 3.8971320 |
| 7826 | 3.8935398 | 7859 | 3.8953673 | 7892 | 3.8971871 |
| 7827 | 3.8935953 | 7860 | 3.8954225 | 7893 | 3.8972421 |
| 7828 | 3.8936508 | 7861 | 3.8954778 | 7894 | 3.8972971 |
| 7829 | 3.8937063 | 7862 | 3.8955330 | 7895 | 3.8973521 |
| 7830 | 3.8937618 | 7863 | 3.8955883 | 7896 | 3.8974071 |
| 7831 | 3.8938172 | 7864 | 3.8956435 | 7897 | 3.8974621 |
| 7832 | 3.8938727 | 7865 | 3.8956987 | 7898 | 3.8975171 |
| 7833 | 3.8939281 | 7866 | 3.8957539 | 7899 | 3.8975721 |
| 7834 | 3.8939836 | 7867 | 3.8958092 | 7900 | 3.8976271 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 7901 | 3.8976821 | 7934 | 3.8994922 | 7967 | 3.9012948 |
| 7902 | 3.8977370 | 7935 | 3.8995469 | 7968 | 3.9013493 |
| 7903 | 3.8977920 | 7936 | 3.8996017 | 7969 | 3.9014038 |
| 7904 | 3.8978469 | 7937 | 3.8996564 | 7970 | 3.9014583 |
| 7905 | 3.8979019 | 7938 | 3.8997111 | 7971 | 3.9015128 |
| 7906 | 3.8979568 | 7939 | 3.8997658 | 7972 | 3.9015673 |
| 7907 | 3.8980117 | 7940 | 3.8998205 | 7973 | 3.9016218 |
| 7908 | 3.8980667 | 7941 | 3.8998752 | 7974 | 3.9016762 |
| 7909 | 3.8981216 | 7942 | 3.8999299 | 7975 | 3.9017307 |
| 7910 | 3.8981765 | 7943 | 3.8999846 | 7976 | 3.9017851 |
| 7911 | 3.8982314 | 7944 | 3.9000392 | 7977 | 3.9018396 |
| 7912 | 3.8982863 | 7945 | 3.9000939 | 7978 | 3.9018940 |
| 7913 | 3.8983412 | 7946 | 3.9001486 | 7979 | 3.9019485 |
| 7914 | 3.8983960 | 7947 | 3.9002032 | 7980 | 3.9020029 |
| 7915 | 3.8984509 | 7948 | 3.9002579 | 7981 | 3.9020573 |
| 7916 | 3.8985058 | 7949 | 3.9003125 | 7982 | 3.9021117 |
| 7917 | 3.8985606 | 7950 | 3.9003671 | 7983 | 3.9021661 |
| 7918 | 3.8986155 | 7951 | 3.9004218 | 7984 | 3.9022205 |
| 7919 | 3.8986703 | 7952 | 3.9004764 | 7985 | 3.9022749 |
| 7920 | 3.8987252 | 7953 | 3.9005310 | 7986 | 3.9023293 |
| 7921 | 3.8987800 | 7954 | 3.9005856 | 7987 | 3.9023837 |
| 7922 | 3.8988348 | 7955 | 3.9006402 | 7988 | 3.9024381 |
| 7923 | 3.8988897 | 7956 | 3.9006948 | 7989 | 3.9024924 |
| 7924 | 3.8989445 | 7957 | 3.9007494 | 7990 | 3.9025468 |
| 7925 | 3.8989993 | 7958 | 3.9008039 | 7991 | 3.9026011 |
| 7926 | 3.8990541 | 7959 | 3.9008585 | 7992 | 3.9026555 |
| 7927 | 3.8991089 | 7960 | 3.9009131 | 7993 | 3.9027098 |
| 7928 | 3.8991636 | 7961 | 3.9009676 | 7994 | 3.9027641 |
| 7929 | 3.8992184 | 7962 | 3.9010222 | 7995 | 3.9028185 |
| 7930 | 3.8992732 | 7963 | 3.9010767 | 7996 | 3.9028728 |
| 7931 | 3.8993279 | 7964 | 3.9011313 | 7997 | 3.9029271 |
| 7932 | 3.8993827 | 7965 | 3.9011858 | 7998 | 3.9029814 |
| 7933 | 3.8994375 | 7966 | 3.9012403 | 7999 | 3.9030357 |
| 7934 | 3.8994922 | 7967 | 3.9012948 | 8000 | 3.9030900 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8001 | 3.9031443 | 8034 | 3.9049318 | 8067 | 3.9067121 |
| 8002 | 3.9031985 | 8035 | 3.9049859 | 8068 | 3.9067659 |
| 8003 | 3.9032528 | 8036 | 3.9050399 | 8069 | 3.9068197 |
| 8004 | 3.9033071 | 8037 | 3.9050940 | 8070 | 3.9068735 |
| 8005 | 3.9033613 | 8038 | 3.9051480 | 8071 | 3.9069273 |
| 8006 | 3.9034156 | 8039 | 3.9052020 | 8072 | 3.9069812 |
| 8007 | 3.9034698 | 8040 | 3.9052560 | 8073 | 3.9070350 |
| 8008 | 3.9035241 | 8041 | 3.9053101 | 8074 | 3.9070887 |
| 8009 | 3.9035783 | 8042 | 3.9053641 | 8075 | 3.9071425 |
| 8010 | 3.9036325 | 8043 | 3.9054181 | 8076 | 3.9071963 |
| 8011 | 3.9036867 | 8044 | 3.9054721 | 8077 | 3.9072501 |
| 8012 | 3.9037409 | 8045 | 3.9055260 | 8078 | 3.9073038 |
| 8013 | 3.9037951 | 8046 | 3.9055800 | 8079 | 3.9073576 |
| 8014 | 3.9038493 | 8047 | 3.9056340 | 8080 | 3.9074114 |
| 8015 | 3.9039035 | 8048 | 3.9056880 | 8081 | 3.9074651 |
| 8016 | 3.9039577 | 8049 | 3.9057419 | 8082 | 3.9075188 |
| 8017 | 3.9040119 | 8050 | 3.9057959 | 8083 | 3.9075726 |
| 8018 | 3.9040661 | 8051 | 3.9058498 | 8084 | 3.9076263 |
| 8019 | 3.9041202 | 8052 | 3.9059038 | 8085 | 3.9076800 |
| 8020 | 3.9041744 | 8053 | 3.9059577 | 8086 | 3.9077337 |
| 8021 | 3.9042285 | 8054 | 3.9060116 | 8087 | 3.9077874 |
| 8022 | 3.9042827 | 8055 | 3.9060655 | 8088 | 3.9078411 |
| 8023 | 3.9043368 | 8056 | 3.9061195 | 8089 | 3.9078948 |
| 8024 | 3.9043909 | 8057 | 3.9061734 | 8090 | 3.9079485 |
| 8025 | 3.9044450 | 8058 | 3.9062273 | 8091 | 3.9080022 |
| 8026 | 3.9044992 | 8059 | 3.9062812 | 8092 | 3.9080559 |
| 8027 | 3.9045533 | 8060 | 3.9063350 | 8093 | 3.9081095 |
| 8028 | 3.9046074 | 8061 | 3.9063889 | 8094 | 3.9081632 |
| 8029 | 3.9046615 | 8062 | 3.9064428 | 8095 | 3.9082169 |
| 8030 | 3.9047155 | 8063 | 3.9064967 | 8096 | 3.9082705 |
| 8031 | 3.9047696 | 8064 | 3.9065505 | 8097 | 3.9083241 |
| 8032 | 3.9048237 | 8065 | 3.9066044 | 8098 | 3.9083778 |
| 8033 | 3.9048778 | 8066 | 3.9066582 | 8099 | 3.9084314 |
| 8034 | 3.9049318 | 8067 | 3.9067121 | 8100 | 3.9084850 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8101 | 3.9085386 | 8134 | 3.9103042 | 8167 | 3.9120626 |
| 8102 | 3.9085922 | 8135 | 3.9103576 | 8168 | 3.9121157 |
| 8103 | 3.9086458 | 8136 | 3.9104109 | 8169 | 3.9121689 |
| 8104 | 3.9086994 | 8137 | 3.9104643 | 8170 | 3.9122221 |
| 8105 | 3.9087530 | 8138 | 3.9105177 | 8171 | 3.9122752 |
| 8106 | 3.9088066 | 8139 | 3.9105710 | 8172 | 3.9123234 |
| 8107 | 3.9088602 | 8140 | 3.9106244 | 8173 | 3.9123815 |
| 8108 | 3.9089137 | 8141 | 3.9106778 | 8174 | 3.9124346 |
| 8109 | 3.9089673 | 8142 | 3.9107311 | 8175 | 3.9124878 |
| 8110 | 3.9090209 | 8143 | 3.9107844 | 8176 | 3.9125409 |
| 8111 | 3.9090744 | 8144 | 3.9108378 | 8177 | 3.9125940 |
| 8112 | 3.9091279 | 8145 | 3.9108911 | 8178 | 3.9126471 |
| 8113 | 3.9091815 | 8146 | 3.9109444 | 8179 | 3.9127002 |
| 8114 | 3.9092350 | 8147 | 3.9109977 | 8180 | 3.9127533 |
| 8115 | 3.9092885 | 8148 | 3.9110510 | 8181 | 3.9128064 |
| 8116 | 3.9093420 | 8149 | 3.9111043 | 8182 | 3.9128595 |
| 8117 | 3.9093955 | 8150 | 3.9111576 | 8183 | 3.9129126 |
| 8118 | 3.9094490 | 8151 | 3.9112109 | 8184 | 3.9129656 |
| 8119 | 3.9095025 | 8152 | 3.9112642 | 8185 | 3.9130187 |
| 8120 | 3.9095560 | 8153 | 3.9113174 | 8186 | 3.9130717 |
| 8121 | 3.9096095 | 8154 | 3.9113707 | 8187 | 3.9131248 |
| 8122 | 3.9096630 | 8155 | 3.9114240 | 8188 | 3.9131778 |
| 8123 | 3.9097165 | 8156 | 3.9114772 | 8189 | 3.9132309 |
| 8124 | 3.9097699 | 8157 | 3.9115305 | 8190 | 3.9132839 |
| 8125 | 3.9098234 | 8158 | 3.9115837 | 8191 | 3.9133369 |
| 8126 | 3.9098768 | 8159 | 3.9116369 | 8192 | 3.9133899 |
| 8127 | 3.9099303 | 8160 | 3.9116902 | 8193 | 3.9134430 |
| 8128 | 3.9099837 | 8161 | 3.9117434 | 8194 | 3.9134960 |
| 8129 | 3.9100371 | 8162 | 3.9117966 | 8195 | 3.9135490 |
| 8130 | 3.9100905 | 8163 | 3.9118498 | 8196 | 3.9136019 |
| 8131 | 3.9101440 | 8164 | 3.9119030 | 8197 | 3.9136549 |
| 8132 | 3.9101974 | 8165 | 3.9119562 | 8198 | 3.9137079 |
| 8133 | 3.9102508 | 8166 | 3.9120094 | 8199 | 3.9137609 |
| 8134 | 3.9103042 | 8167 | 3.9120626 | 8200 | 3.9138139 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8201 | 3.9138668 | 8234 | 3.9156109 | 8267 | 3.9173479 |
| 8202 | 3.9139198 | 8235 | 3.9156636 | 8268 | 3.9174005 |
| 8203 | 3.9139727 | 8236 | 3.9157163 | 8269 | 3.9174530 |
| 8204 | 3.9140257 | 8237 | 3.9157691 | 8270 | 3.9175055 |
| 8205 | 3.9140786 | 8238 | 3.9158218 | 8271 | 3.9175580 |
| 8206 | 3.9141315 | 8239 | 3.9158745 | 8272 | 3.9176105 |
| 8207 | 3.9141844 | 8240 | 3.9159272 | 8273 | 3.9176630 |
| 8208 | 3.9142373 | 8241 | 3.9159799 | 8274 | 3.9177155 |
| 8209 | 3.9142903 | 8242 | 3.9160326 | 8275 | 3.9177680 |
| 8210 | 3.9143432 | 8243 | 3.9160853 | 8276 | 3.9178205 |
| 8211 | 3.9143961 | 8244 | 3.9161380 | 8277 | 3.9178730 |
| 8212 | 3.9144489 | 8245 | 3.9161907 | 8278 | 3.9179254 |
| 8213 | 3.9145018 | 8246 | 3.9162433 | 8279 | 3.9179779 |
| 8214 | 3.9145547 | 8247 | 3.9162960 | 8280 | 3.9180303 |
| 8215 | 3.9146076 | 8248 | 3.9163487 | 8281 | 3.9180828 |
| 8216 | 3.9146604 | 8249 | 3.9164013 | 8282 | 3.9181352 |
| 8217 | 3.9147133 | 8250 | 3.9164539 | 8283 | 3.9181877 |
| 8218 | 3.9147661 | 8251 | 3.9165066 | 8284 | 3.9182401 |
| 8219 | 3.9148190 | 8252 | 3.9165592 | 8285 | 3.9182925 |
| 8220 | 3.9148718 | 8253 | 3.9166118 | 8286 | 3.9183449 |
| 8221 | 3.9149246 | 8254 | 3.9166645 | 8287 | 3.9183973 |
| 8222 | 3.9149775 | 8255 | 3.9167171 | 8288 | 3.9184497 |
| 8223 | 3.9150303 | 8256 | 3.9167697 | 8289 | 3.9185021 |
| 8224 | 3.9150831 | 8257 | 3.9168223 | 8290 | 3.9185545 |
| 8225 | 3.9151359 | 8258 | 3.9168749 | 8291 | 3.9186069 |
| 8226 | 3.9151887 | 8259 | 3.9169275 | 8292 | 3.9186593 |
| 8227 | 3.9152415 | 8260 | 3.9169800 | 8293 | 3.9187117 |
| 8228 | 3.9152943 | 8261 | 3.9170326 | 8294 | 3.9187640 |
| 8229 | 3.9153471 | 8262 | 3.9170852 | 8295 | 3.9188164 |
| 8230 | 3.9153998 | 8263 | 3.9171378 | 8296 | 3.9188687 |
| 8231 | 3.9154526 | 8264 | 3.9171903 | 8297 | 3.9189211 |
| 8232 | 3.9155054 | 8265 | 3.9172429 | 8298 | 3.9189734 |
| 8233 | 3.9155581 | 8266 | 3.9172954 | 8299 | 3.9190258 |
| 8234 | 3.9156109 | 8267 | 3.9173479 | 8300 | 3.9190781 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8301 | 3.9191304 | 8334 | 3.9208535 | 8367 | 3.9225698 |
| 8302 | 3.9191827 | 8335 | 3.9209056 | 8368 | 3.9226217 |
| 8303 | 3.9192350 | 8336 | 3.9209577 | 8369 | 3.9226736 |
| 8304 | 3.9192873 | 8337 | 3.9210098 | 8370 | 3.9227255 |
| 8305 | 3.9193396 | 8338 | 3.9210619 | 8371 | 3.9227773 |
| 8306 | 3.9193919 | 8339 | 3.9211140 | 8372 | 3.9228292 |
| 8307 | 3.9194442 | 8340 | 3.9211661 | 8373 | 3.9228811 |
| 8308 | 3.9194965 | 8341 | 3.9212181 | 8374 | 3.9229330 |
| 8309 | 3.9195488 | 8342 | 3.9212702 | 8375 | 3.9229848 |
| 8310 | 3.9196010 | 8343 | 3.9213222 | 8376 | 3.9230367 |
| 8311 | 3.9196533 | 8344 | 3.9213743 | 8377 | 3.9230885 |
| 8312 | 3.9197055 | 8345 | 3.9214263 | 8378 | 3.9231404 |
| 8313 | 3.9197578 | 8346 | 3.9214784 | 8379 | 3.9231922 |
| 8314 | 3.9198100 | 8347 | 3.9215304 | 8380 | 3.9232440 |
| 8315 | 3.9198623 | 8348 | 3.9215824 | 8381 | 3.9232958 |
| 8316 | 3.9199145 | 8349 | 3.9216345 | 8382 | 3.9233477 |
| 8317 | 3.9199667 | 8350 | 3.9216865 | 8383 | 3.9233995 |
| 8318 | 3.9200189 | 8351 | 3.9217385 | 8384 | 3.9234513 |
| 8319 | 3.9200711 | 8352 | 3.9217905 | 8385 | 3.9235031 |
| 8320 | 3.9201233 | 8353 | 3.9218425 | 8386 | 3.9235549 |
| 8321 | 3.9201755 | 8354 | 3.9218945 | 8387 | 3.9236066 |
| 8322 | 3.9202277 | 8355 | 3.9219465 | 8388 | 3.9236584 |
| 8323 | 3.9202799 | 8356 | 3.9219984 | 8389 | 3.9237102 |
| 8324 | 3.9203321 | 8357 | 3.9220504 | 8390 | 3.9237620 |
| 8325 | 3.9203842 | 8358 | 3.9221024 | 8391 | 3.9238137 |
| 8326 | 3.9204364 | 8359 | 3.9221543 | 8392 | 3.9238655 |
| 8327 | 3.9204886 | 8360 | 3.9222063 | 8393 | 3.9239172 |
| 8328 | 3.9205407 | 8361 | 3.9222582 | 8394 | 3.9239690 |
| 8329 | 3.9205929 | 8362 | 3.9223102 | 8395 | 3.9240207 |
| 8330 | 3.9206450 | 8363 | 3.9223621 | 8396 | 3.9240724 |
| 8331 | 3.9206971 | 8364 | 3.9224140 | 8397 | 3.9241242 |
| 8332 | 3.9207493 | 8365 | 3.9224659 | 8398 | 3.9241759 |
| 8333 | 3.9208014 | 8366 | 3.9225179 | 8399 | 3.9242276 |
| 8334 | 3.9208535 | 8367 | 3.9225698 | 8300 | 3.9242793 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8401 | 3.9243310 | 8434 | 3.9260336 | 8467 | 3.9277296 |
| 8402 | 3.9243827 | 8435 | 3.9260851 | 8468 | 3.9277808 |
| 8403 | 3.9244344 | 8436 | 3.9261366 | 8469 | 3.9278321 |
| 8404 | 3.9244860 | 8437 | 3.9261880 | 8470 | 3.9278834 |
| 8405 | 3.9245377 | 8438 | 3.9262395 | 8471 | 3.9279347 |
| 8406 | 3.9245894 | 8439 | 3.9262910 | 8472 | 3.9279859 |
| 8407 | 3.9246410 | 8440 | 3.9263424 | 8473 | 3.9280372 |
| 8408 | 3.9246927 | 8441 | 3.9263939 | 8474 | 3.9280885 |
| 8409 | 3.9247444 | 8442 | 3.9264453 | 8475 | 3.9281397 |
| 8410 | 3.9247960 | 8443 | 3.9264968 | 8476 | 3.9281909 |
| 8411 | 3.9248476 | 8444 | 3.9265482 | 8477 | 3.9282422 |
| 8412 | 3.9248993 | 8445 | 3.9265997 | 8478 | 3.9282934 |
| 8413 | 3.9249509 | 8446 | 3.9266511 | 8479 | 3.9283446 |
| 8414 | 3.9250025 | 8447 | 3.9267025 | 8480 | 3.9283959 |
| 8415 | 3.9250541 | 8448 | 3.9267539 | 8481 | 3.9284471 |
| 8416 | 3.9251057 | 8449 | 3.9268053 | 8482 | 3.9284983 |
| 8417 | 3.9251573 | 8450 | 3.9268567 | 8483 | 3.9285495 |
| 8418 | 3.9252089 | 8451 | 3.9269081 | 8484 | 3.9286007 |
| 8419 | 3.9252605 | 8452 | 3.9269595 | 8485 | 3.9286518 |
| 8420 | 3.9253121 | 8453 | 3.9270109 | 8486 | 3.9287030 |
| 8421 | 3.9253637 | 8454 | 3.9270622 | 8487 | 3.9287542 |
| 8422 | 3.9254152 | 8455 | 3.9271136 | 8488 | 3.9288054 |
| 8423 | 3.9254668 | 8456 | 3.9271650 | 8489 | 3.9288565 |
| 8424 | 3.9255184 | 8457 | 3.9272163 | 8490 | 3.9289077 |
| 8425 | 3.9255699 | 8458 | 3.9272677 | 8491 | 3.9289588 |
| 8426 | 3.9256215 | 8459 | 3.9273190 | 8492 | 3.9290100 |
| 8427 | 3.9256730 | 8460 | 3.9273704 | 8493 | 3.9290611 |
| 8428 | 3.9257245 | 8461 | 3.9274217 | 8494 | 3.9291123 |
| 8429 | 3.9257761 | 8462 | 3.9274730 | 8495 | 3.9291634 |
| 8430 | 3.9258276 | 8463 | 3.9275243 | 8496 | 3.9292145 |
| 8431 | 3.9258791 | 8464 | 3.9275757 | 8497 | 3.9292656 |
| 8432 | 3.9259306 | 8465 | 3.9276270 | 8498 | 3.9293167 |
| 8433 | 3.9259821 | 8466 | 3.9276783 | 8499 | 3.9293678 |
| 8434 | 3.9260336 | 8467 | 3.9277296 | 8500 | 3.9294189 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8501 | 3.9294700 | 8534 | 3.9311526 | 8567 | 3.9328288 |
| 8502 | 3.9295211 | 8535 | 3.9312035 | 8568 | 3.9328795 |
| 8503 | 3.9295722 | 8536 | 3.9312544 | 8569 | 3.9329301 |
| 8504 | 3.9296233 | 8537 | 3.9313053 | 8570 | 3.9329808 |
| 8505 | 3.9296743 | 8538 | 3.9313561 | 8571 | 3.9330315 |
| 8506 | 3.9297254 | 8539 | 3.9314070 | 8572 | 3.9330822 |
| 8507 | 3.9297764 | 8540 | 3.9314579 | 8573 | 3.9331328 |
| 8508 | 3.9298275 | 8541 | 3.9315087 | 8574 | 3.9331835 |
| 8509 | 3.9298785 | 8542 | 3.9315596 | 8575 | 3.9332341 |
| 8510 | 3.9299296 | 8543 | 3.9316104 | 8576 | 3.9332848 |
| 8511 | 3.9299806 | 8544 | 3.9316612 | 8577 | 3.9333354 |
| 8512 | 3.9300316 | 8545 | 3.9317121 | 8578 | 3.9333860 |
| 8513 | 3.9300826 | 8546 | 3.9317629 | 8579 | 3.9334367 |
| 8514 | 3.9301336 | 8547 | 3.9318137 | 8580 | 3.9334873 |
| 8515 | 3.9301847 | 8548 | 3.9318645 | 8581 | 3.9335379 |
| 8516 | 3.9302357 | 8549 | 3.9319153 | 8582 | 3.9335885 |
| 8517 | 3.9302866 | 8550 | 3.9319661 | 8583 | 3.9336391 |
| 8518 | 3.9303376 | 8551 | 3.9320169 | 8584 | 3.9336897 |
| 8519 | 3.9303886 | 8552 | 3.9320677 | 8585 | 3.9337403 |
| 8520 | 3.9304396 | 8553 | 3.9321185 | 8586 | 3.9337909 |
| 8521 | 3.9304906 | 8554 | 3.9321692 | 8587 | 3.9338415 |
| 8522 | 3.9305415 | 8555 | 3.9322200 | 8588 | 3.9338920 |
| 8523 | 3.9305925 | 8556 | 3.9322708 | 8589 | 3.9339426 |
| 8524 | 3.9306434 | 8557 | 3.9323215 | 8590 | 3.9339932 |
| 8525 | 3.9306944 | 8558 | 3.9323723 | 8591 | 3.9340437 |
| 8526 | 3.9307453 | 8559 | 3.9324230 | 8592 | 3.9340943 |
| 8527 | 3.9307963 | 8560 | 3.9324738 | 8593 | 3.9341448 |
| 8528 | 3.9308472 | 8561 | 3.9325245 | 8594 | 3.9341953 |
| 8529 | 3.9308981 | 8562 | 3.9325752 | 8595 | 3.9342459 |
| 8530 | 3.9309490 | 8563 | 3.9326259 | 8596 | 3.9342964 |
| 8531 | 3.9309999 | 8564 | 3.9326767 | 8597 | 3.9343469 |
| 8532 | 3.9310508 | 8565 | 3.9327274 | 8598 | 3.9343974 |
| 8533 | 3.9311017 | 8566 | 3.9327781 | 8599 | 3.9344479 |
| 8534 | 3.9311526 | 8567 | 3.9328288 | 8600 | 3.9344984 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8601 | 3.9345489 | 8634 | 3.9362120 | 8667 | 3.9378688 |
| 8602 | 3.9345994 | 8635 | 3.9362623 | 8668 | 3.9379189 |
| 8603 | 3.9346499 | 8636 | 3.9363126 | 8669 | 3.9379690 |
| 8604 | 3.9347004 | 8637 | 3.9363629 | 8670 | 3.9380191 |
| 8605 | 3.9347509 | 8638 | 3.9364132 | 8671 | 3.9380692 |
| 8606 | 3.9348013 | 8639 | 3.9364635 | 8672 | 3.9381193 |
| 8607 | 3.9348518 | 8640 | 3.9365137 | 8673 | 3.9381693 |
| 8608 | 3.9349023 | 8641 | 3.9365640 | 8674 | 3.9382194 |
| 8609 | 3.9349527 | 8642 | 3.9366143 | 8675 | 3.9382695 |
| 8610 | 3.9350032 | 8643 | 3.9366645 | 8676 | 3.9383195 |
| 8611 | 3.9350536 | 8644 | 3.9367148 | 8677 | 3.9383696 |
| 8612 | 3.9351040 | 8645 | 3.9367650 | 8678 | 3.9384196 |
| 8613 | 3.9351544 | 8646 | 3.9368152 | 8679 | 3.9384697 |
| 8614 | 3.9352049 | 8647 | 3.9368655 | 8680 | 3.9385197 |
| 8615 | 3.9352553 | 8648 | 3.9369157 | 8681 | 3.9385698 |
| 8616 | 3.9353057 | 8649 | 3.9369659 | 8682 | 3.9386198 |
| 8617 | 3.9353561 | 8650 | 3.9370161 | 8683 | 3.9386698 |
| 8618 | 3.9354065 | 8651 | 3.9370663 | 8684 | 3.9387198 |
| 8619 | 3.9354569 | 8652 | 3.9371165 | 8685 | 3.9387698 |
| 8620 | 3.9355073 | 8653 | 3.9371667 | 8686 | 3.9388198 |
| 8621 | 3.9355576 | 8654 | 3.9372169 | 8687 | 3.9388698 |
| 8622 | 3.9356080 | 8655 | 3.9372671 | 8688 | 3.9389193 |
| 8623 | 3.9356584 | 8656 | 3.9373172 | 8689 | 3.9389698 |
| 8624 | 3.9357087 | 8657 | 3.9373674 | 8690 | 3.9390198 |
| 8625 | 3.9357591 | 8658 | 3.9374176 | 8691 | 3.9390697 |
| 8626 | 3.9358095 | 8659 | 3.9374677 | 8692 | 3.9391197 |
| 8627 | 3.9358598 | 8660 | 3.9375179 | 8693 | 3.9391697 |
| 8628 | 3.9359101 | 8661 | 3.9375680 | 8694 | 3.9392196 |
| 8629 | 3.9359605 | 8662 | 3.9376182 | 8695 | 3.9392696 |
| 8630 | 3.9360108 | 8663 | 3.9376683 | 8696 | 3.9393195 |
| 8631 | 3.9360611 | 8664 | 3.9377184 | 8697 | 3.9393695 |
| 8632 | 3.9361114 | 8665 | 3.9377686 | 8698 | 3.9394194 |
| 8633 | 3.9361617 | 8666 | 3.9378187 | 8699 | 3.9394693 |
| 8634 | 3.9362120 | 8667 | 3.9378688 | 8700 | 3.9395193 |

| N | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8701 | 3.9395692 | 8734 | 3.9412132 | 8767 | 3.9428510 |
| 8702 | 3.9396191 | 8735 | 3.9412629 | 8768 | 3.9429005 |
| 8703 | 3.9396690 | 8736 | 3.9413126 | 8769 | 3.9429501 |
| 8704 | 3.9397189 | 8737 | 3.9413623 | 8770 | 3.9429996 |
| 8705 | 3.9397688 | 8738 | 3.9414120 | 8771 | 3.9430491 |
| 8706 | 3.9398187 | 8739 | 3.9414617 | 8772 | 3.9430986 |
| 8707 | 3.9398685 | 8740 | 3.9415114 | 8773 | 3.9431481 |
| 8708 | 3.9399184 | 8741 | 3.9415611 | 8774 | 3.9431976 |
| 8709 | 3.9399683 | 8742 | 3.9416108 | 8775 | 3.9432471 |
| 8710 | 3.9400182 | 8743 | 3.9416605 | 8776 | 3.9432966 |
| 8711 | 3.9400680 | 8744 | 3.9417101 | 8777 | 3.9433461 |
| 8712 | 3.9401179 | 8745 | 3.9417598 | 8778 | 3.9433956 |
| 8713 | 3.9401677 | 8746 | 3.9418095 | 8779 | 3.9434450 |
| 8714 | 3.9402176 | 8747 | 3.9418591 | 8780 | 3.9434945 |
| 8715 | 3.9402674 | 8748 | 3.9419088 | 8781 | 3.9435440 |
| 8716 | 3.9403172 | 8749 | 3.9419584 | 8782 | 3.9435934 |
| 8717 | 3.9403670 | 8750 | 3.9420081 | 8783 | 3.9436429 |
| 8718 | 3.9404169 | 8751 | 3.9420577 | 8784 | 3.9436923 |
| 8719 | 3.9404667 | 8752 | 3.9421073 | 8785 | 3.9437418 |
| 8720 | 3.9405165 | 8753 | 3.9421569 | 8786 | 3.9437912 |
| 8721 | 3.9405663 | 8754 | 3.9422065 | 8787 | 3.9438406 |
| 8722 | 3.9406161 | 8755 | 3.9422561 | 8788 | 3.9438900 |
| 8723 | 3.9406659 | 8756 | 3.9423058 | 8789 | 3.9439395 |
| 8724 | 3.9407157 | 8757 | 3.9423553 | 8790 | 3.9439889 |
| 8725 | 3.9407654 | 8758 | 3.9424049 | 8791 | 3.9440383 |
| 8726 | 3.9408152 | 8759 | 3.9424545 | 8792 | 3.9440877 |
| 8727 | 3.9408650 | 8760 | 3.9425041 | 8793 | 3.9441371 |
| 8728 | 3.9409147 | 8761 | 3.9425537 | 8794 | 3.9441865 |
| 8729 | 3.9409645 | 8762 | 3.9426032 | 8795 | 3.9442358 |
| 8730 | 3.9410142 | 8763 | 3.9426528 | 8796 | 3.9442852 |
| 8731 | 3.9410640 | 8764 | 3.9427024 | 8797 | 3.9443346 |
| 8732 | 3.9411137 | 8765 | 3.9427519 | 8798 | 3.9443840 |
| 8733 | 3.9411635 | 8766 | 3.9428015 | 8799 | 3.9444333 |
| 8734 | 3.9412132 | 8767 | 3.9428510 | 8800 | 3.9444827 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8801 | 3.9445320 | 8834 | 3.9461574 | 8867 | 3.9477767 |
| 8802 | 3.9445814 | 8835 | 3.9462066 | 8868 | 3.9478257 |
| 8803 | 3.9446307 | 8836 | 3.9462557 | 8869 | 3.9478747 |
| 8804 | 3.9446800 | 8837 | 3.9463048 | 8870 | 3.9479236 |
| 8805 | 3.9447294 | 8838 | 3.9463540 | 8871 | 3.9479726 |
| 8806 | 3.9447787 | 8839 | 3.9464031 | 8872 | 3.9480215 |
| 8807 | 3.9448280 | 8840 | 3.9464523 | 8873 | 3.9480705 |
| 8808 | 3.9448773 | 8841 | 3.9465014 | 8874 | 3.9481194 |
| 8809 | 3.9449266 | 8842 | 3.9465505 | 8875 | 3.9481684 |
| 8810 | 3.9449759 | 8843 | 3.9465996 | 8876 | 3.9482173 |
| 8811 | 3.9450252 | 8844 | 3.9466487 | 8877 | 3.9482662 |
| 8812 | 3.9450745 | 8845 | 3.9466978 | 8878 | 3.9483151 |
| 8813 | 3.9451238 | 8846 | 3.9467469 | 8879 | 3.9483641 |
| 8814 | 3.9451730 | 8847 | 3.9467960 | 8880 | 3.9484130 |
| 8815 | 3.9452223 | 8848 | 3.9468451 | 8881 | 3.9484619 |
| 8816 | 3.9452716 | 8849 | 3.9468942 | 8882 | 3.9485108 |
| 8817 | 3.9453208 | 8850 | 3.9469433 | 8883 | 3.9485597 |
| 8818 | 3.9453701 | 8851 | 3.9469923 | 8884 | 3.9486085 |
| 8819 | 3.9454193 | 8852 | 3.9470414 | 8885 | 3.9486574 |
| 8820 | 3.9454686 | 8853 | 3.9470905 | 8886 | 3.9487063 |
| 8821 | 3.9455178 | 8854 | 3.9471395 | 8887 | 3.9487552 |
| 8822 | 3.9455671 | 8855 | 3.9471886 | 8888 | 3.9488040 |
| 8823 | 3.9456163 | 8856 | 3.9472376 | 8889 | 3.9488529 |
| 8824 | 3.9456655 | 8857 | 3.9472866 | 8890 | 3.9489018 |
| 8825 | 3.9457147 | 8858 | 3.9473357 | 8891 | 3.9489506 |
| 8826 | 3.9457639 | 8859 | 3.9473847 | 8892 | 3.9489995 |
| 8827 | 3.9458131 | 8860 | 3.9474337 | 8893 | 3.9490483 |
| 8828 | 3.9458623 | 8861 | 3.9474827 | 8894 | 3.9490971 |
| 8829 | 3.9459115 | 8862 | 3.9475317 | 8895 | 3.9491460 |
| 8830 | 3.9459607 | 8863 | 3.9475807 | 8896 | 3.9491948 |
| 8831 | 3.9460099 | 8864 | 3.9476297 | 8897 | 3.9492436 |
| 8832 | 3.9460541 | 8865 | 3.9476787 | 8898 | 3.9492924 |
| 8833 | 3.9461082 | 8866 | 3.9477277 | 8899 | 3.9493412 |
| 8834 | 3.9461574 | 8867 | 3.9477767 | 8900 | 3.9493900 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 8901 | 3.9494388 | 8934 | 3.9510459 | 8967 | 3.9526472 |
| 8902 | 3.9494876 | 8935 | 3.9510946 | 8968 | 3.9526956 |
| 8903 | 3.9495364 | 8936 | 3.9511432 | 8969 | 3.9527440 |
| 8904 | 3.9495852 | 8937 | 3.9511918 | 8970 | 3.9527924 |
| 8905 | 3.9496339 | 8938 | 3.9512404 | 8971 | 3.9528409 |
| 8906 | 3.9496827 | 8939 | 3.9512889 | 8972 | 3.9528893 |
| 8907 | 3.9497315 | 8940 | 3.9513375 | 8973 | 3.9529377 |
| 8908 | 3.9497802 | 8941 | 3.9513861 | 8974 | 3.9529861 |
| 8909 | 3.9498290 | 8942 | 3.9514347 | 8975 | 3.9530345 |
| 8910 | 3.9498777 | 8943 | 3.9514832 | 8976 | 3.9530828 |
| 8911 | 3.9499264 | 8944 | 3.9515318 | 8977 | 3.9531312 |
| 8912 | 3.9499752 | 8945 | 3.9515803 | 8978 | 3.9531796 |
| 8913 | 3.9500239 | 8946 | 3.9516289 | 8979 | 3.9532280 |
| 8914 | 3.9500726 | 8947 | 3.9516774 | 8980 | 3.9532763 |
| 8915 | 3.9501213 | 8948 | 3.9517260 | 8981 | 3.9533247 |
| 8916 | 3.9501701 | 8949 | 3.9517745 | 8982 | 3.9533730 |
| 8917 | 3.9502188 | 8950 | 3.9518230 | 8983 | 3.9534214 |
| 8918 | 3.9502675 | 8951 | 3.9518716 | 8984 | 3.9534697 |
| 8919 | 3.9503162 | 8952 | 3.9519201 | 8985 | 3.9535181 |
| 8920 | 3.9503649 | 8953 | 3.9519686 | 8986 | 3.9535664 |
| 8921 | 3.9504135 | 8954 | 3.9520171 | 8987 | 3.9536147 |
| 8922 | 3.9504622 | 8955 | 3.9520656 | 8988 | 3.9536631 |
| 8923 | 3.9505109 | 8956 | 3.9521141 | 8989 | 3.9537114 |
| 8924 | 3.9505596 | 8957 | 3.9521626 | 8990 | 3.9537597 |
| 8925 | 3.9506082 | 8958 | 3.9522111 | 8991 | 3.9538080 |
| 8926 | 3.9506569 | 8959 | 3.9522595 | 8992 | 3.9538563 |
| 8927 | 3.9507055 | 8960 | 3.9523080 | 8993 | 3.9539046 |
| 8928 | 3.9507542 | 8961 | 3.9523565 | 8994 | 3.9539529 |
| 8929 | 3.9508028 | 8962 | 3.9524049 | 8995 | 3.9540012 |
| 8930 | 3.9508515 | 8963 | 3.9524534 | 8996 | 3.9540494 |
| 8931 | 3.9509001 | 8964 | 3.9525018 | 8997 | 3.9540977 |
| 8932 | 3.9509487 | 8965 | 3.9525503 | 8998 | 3.9541460 |
| 8933 | 3.9509973 | 8966 | 3.9525987 | 8999 | 3.9541943 |
| 8934 | 3.9510459 | 8967 | 3.9526472 | 9000 | 3.9542425 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9001 | 3.9542908 | 9034 | 3.9558801 | 9067 | 3.9574636 |
| 9002 | 3.9543390 | 9035 | 3.9559282 | 9068 | 3.9575115 |
| 9003 | 3.9543872 | 9036 | 3.9559762 | 9069 | 3.9575594 |
| 9004 | 3.9544355 | 9037 | 3.9560243 | 9070 | 3.9576073 |
| 9005 | 3.9544837 | 9038 | 3.9560723 | 9071 | 3.9576552 |
| 9006 | 3.9545319 | 9039 | 3.9561204 | 9072 | 3.9577030 |
| 9007 | 3.9545802 | 9040 | 3.9561684 | 9073 | 3.9577509 |
| 9008 | 3.9546284 | 9041 | 3.9562165 | 9074 | 3.9577988 |
| 9009 | 3.9546766 | 9042 | 3.9562645 | 9075 | 3.9578466 |
| 9010 | 3.9547248 | 9043 | 3.9563125 | 9076 | 3.9578945 |
| 9011 | 3.9547730 | 9044 | 3.9563606 | 9077 | 3.9579423 |
| 9012 | 3.9548212 | 9045 | 3.9564086 | 9078 | 3.9579902 |
| 9013 | 3.9548694 | 9046 | 3.9564566 | 9079 | 3.9580380 |
| 9014 | 3.9549176 | 9047 | 3.9565046 | 9080 | 3.9580858 |
| 9015 | 3.9549657 | 9048 | 3.9565526 | 9081 | 3.9581337 |
| 9016 | 3.9550139 | 9049 | 3.9566006 | 9082 | 3.9581815 |
| 9017 | 3.9550621 | 9050 | 3.9566486 | 9083 | 3.9582293 |
| 9018 | 3.9551102 | 9051 | 3.9566966 | 9084 | 3.9582771 |
| 9019 | 3.9551584 | 9052 | 3.9567445 | 9085 | 3.9583249 |
| 9020 | 3.9552065 | 9053 | 3.9567925 | 9086 | 3.9583727 |
| 9021 | 3.9552547 | 9054 | 3.9568405 | 9087 | 3.9584205 |
| 9022 | 3.9553028 | 9055 | 3.9568885 | 9088 | 3.9584683 |
| 9023 | 3.9553510 | 9056 | 3.9569364 | 9089 | 3.9585161 |
| 9024 | 3.9553991 | 9057 | 3.9569844 | 9090 | 3.9585639 |
| 9025 | 3.9554472 | 9058 | 3.9570323 | 9091 | 3.9586117 |
| 9026 | 3.9554953 | 9059 | 3.9570803 | 9092 | 3.9586594 |
| 9027 | 3.9555434 | 9060 | 3.9571282 | 9093 | 3.9587072 |
| 9028 | 3.9555915 | 9061 | 3.9571761 | 9094 | 3.9587549 |
| 9029 | 3.9556397 | 9062 | 3.9572241 | 9095 | 3.9588027 |
| 9030 | 3.9556877 | 9063 | 3.9572720 | 9096 | 3.9588505 |
| 9031 | 3.9557358 | 9064 | 3.9573199 | 9097 | 3.9588982 |
| 9032 | 3.9557839 | 9065 | 3.9573678 | 9098 | 3.9589459 |
| 9033 | 3.9558320 | 9066 | 3.9574157 | 9099 | 3.9589937 |
| 9034 | 3.9558801 | 9067 | 3.9574636 | 9100 | 3.9590414 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9101 | 3.9590891 | 9134 | 3.9606610 | 9167 | 3.9622272 |
| 9102 | 3.9591368 | 9135 | 3.9607086 | 9168 | 3.9622746 |
| 9103 | 3.9591845 | 9136 | 3.9607561 | 9169 | 3.9623220 |
| 9104 | 3.9592322 | 9137 | 3.9608036 | 9170 | 3.9623693 |
| 9105 | 3.9592799 | 9138 | 3.9608512 | 9171 | 3.9624167 |
| 9106 | 3.9593276 | 9139 | 3.9608987 | 9172 | 3.9624640 |
| 9107 | 3.9593753 | 9140 | 3.9609462 | 9173 | 3.9625114 |
| 9108 | 3.9594230 | 9141 | 3.9609937 | 9174 | 3.9625587 |
| 9109 | 3.9594707 | 9142 | 3.9610412 | 9175 | 3.9626061 |
| 9110 | 3.9595184 | 9143 | 3.9610887 | 9176 | 3.9626534 |
| 9111 | 3.9595660 | 9144 | 3.9611362 | 9177 | 3.9627007 |
| 9112 | 3.9596137 | 9145 | 3.9611837 | 9178 | 3.9627481 |
| 9113 | 3.9596614 | 9146 | 3.9612312 | 9179 | 3.9627954 |
| 9114 | 3.9597090 | 9147 | 3.9612787 | 9180 | 3.9628427 |
| 9115 | 3.9597567 | 9148 | 3.9613262 | 9181 | 3.9628900 |
| 9116 | 3.9598043 | 9149 | 3.9613736 | 9182 | 3.9629373 |
| 9117 | 3.9598520 | 9150 | 3.9614211 | 9183 | 3.9629846 |
| 9118 | 3.9598996 | 9151 | 3.9614686 | 9184 | 3.9630319 |
| 9119 | 3.9599472 | 9152 | 3.9615160 | 9185 | 3.9630792 |
| 9120 | 3.9599948 | 9153 | 3.9615635 | 9186 | 3.9631264 |
| 9121 | 3.9600425 | 9154 | 3.9616109 | 9187 | 3.9631737 |
| 9122 | 3.9600901 | 9155 | 3.9616583 | 9188 | 3.9632210 |
| 9123 | 3.9601377 | 9156 | 3.9617058 | 9189 | 3.9632683 |
| 9124 | 3.9601853 | 9157 | 3.9617532 | 9190 | 3.9633155 |
| 9125 | 3.9602329 | 9158 | 3.9618006 | 9191 | 3.9633628 |
| 9126 | 3.9602805 | 9159 | 3.9618481 | 9192 | 3.9634100 |
| 9127 | 3.9603280 | 9160 | 3.9618955 | 9193 | 3.9634573 |
| 9128 | 3.9603756 | 9161 | 3.9619429 | 9194 | 3.9635045 |
| 9129 | 3.9604232 | 9162 | 3.9619903 | 9195 | 3.9635517 |
| 9130 | 3.9604708 | 9163 | 3.9620377 | 9196 | 3.9635990 |
| 9131 | 3.9605183 | 9164 | 3.9620851 | 9197 | 3.9636462 |
| 9132 | 3.9605659 | 9165 | 3.9621325 | 9198 | 3.9636934 |
| 9133 | 3.9606135 | 9166 | 3.9621799 | 9199 | 3.9637406 |
| 9134 | 3.9606610 | 9167 | 3.9622272 | 9200 | 3.9637878 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9201 | 3.9638350 | 9234 | 3.9653899 | 9267 | 3.9669392 |
| 9202 | 3.9638822 | 9235 | 3.9654369 | 9268 | 3.9669860 |
| 9203 | 3.9639294 | 9236 | 3.9654839 | 9269 | 3.9670329 |
| 9204 | 3.9639766 | 9237 | 3.9655309 | 9270 | 3.9670797 |
| 9205 | 3.9640238 | 9238 | 3.9655780 | 9271 | 3.9671266 |
| 9206 | 3.9640710 | 9239 | 3.9656250 | 9272 | 3.9671734 |
| 9207 | 3.9641181 | 9240 | 3.9656720 | 9273 | 3.9672203 |
| 9208 | 3.9641653 | 9241 | 3.9657190 | 9274 | 3.9672671 |
| 9209 | 3.9642125 | 9242 | 3.9657660 | 9275 | 3.9673139 |
| 9210 | 3.9642596 | 9243 | 3.9658130 | 9276 | 3.9673607 |
| 9211 | 3.9643068 | 9244 | 3.9658599 | 9277 | 3.9674076 |
| 9212 | 3.9643539 | 9245 | 3.9659069 | 9278 | 3.9674544 |
| 9213 | 3.9644011 | 9246 | 3.9659539 | 9279 | 3.9675012 |
| 9214 | 3.9644482 | 9247 | 3.9660009 | 9280 | 3.9675480 |
| 9215 | 3.9644953 | 9248 | 3.9660478 | 9281 | 3.9675948 |
| 9216 | 3.9645425 | 9249 | 3.9660948 | 9282 | 3.9676416 |
| 9217 | 3.9645896 | 9250 | 3.9661417 | 9283 | 3.9676883 |
| 9218 | 3.9646367 | 9251 | 3.9661887 | 9284 | 3.9677351 |
| 9219 | 3.9646838 | 9252 | 3.9662356 | 9285 | 3.9677819 |
| 9220 | 3.9647309 | 9253 | 3.9662826 | 9286 | 3.9678287 |
| 9221 | 3.9647780 | 9254 | 3.9663295 | 9287 | 3.9678754 |
| 9222 | 3.9648251 | 9255 | 3.9663764 | 9288 | 3.9679222 |
| 9223 | 3.9648722 | 9256 | 3.9664233 | 9289 | 3.9679690 |
| 9224 | 3.9649193 | 9257 | 3.9664703 | 9290 | 3.9680157 |
| 9225 | 3.9649664 | 9258 | 3.9665172 | 9291 | 3.9680625 |
| 9226 | 3.9650134 | 9259 | 3.9665641 | 9292 | 3.9681092 |
| 9227 | 3.9650605 | 9260 | 3.9666110 | 9293 | 3.9681559 |
| 9228 | 3.9651076 | 9261 | 3.9666579 | 9294 | 3.9682027 |
| 9229 | 3.9651546 | 9262 | 3.9667048 | 9295 | 3.9682494 |
| 9230 | 3.9652017 | 9263 | 3.9667517 | 9296 | 3.9682961 |
| 9231 | 3.9652488 | 9264 | 3.9667985 | 9297 | 3.9683428 |
| 9232 | 3.9652958 | 9265 | 3.9668454 | 9298 | 3.9683895 |
| 9233 | 3.9653428 | 9266 | 3.9668923 | 9299 | 3.9684362 |
| 9234 | 3.9653899 | 9267 | 3.9669392 | 9300 | 3.9684829 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9301 | 3.9685296 | 9334 | 3.9700678 | 9367 | 3.9716005 |
| 9302 | 3.9685763 | 9335 | 3.9701143 | 9368 | 3.9716469 |
| 9303 | 3.9686230 | 9336 | 3.9701608 | 9369 | 3.9716932 |
| 9304 | 3.9686697 | 9337 | 3.9702074 | 9370 | 3.9717396 |
| 9305 | 3.9687164 | 9338 | 3.9702539 | 9371 | 3.9717859 |
| 9306 | 3.9687630 | 9339 | 3.9703004 | 9372 | 3.9718323 |
| 9307 | 3.9688097 | 9340 | 3.9703469 | 9373 | 3.9718786 |
| 9308 | 3.9688564 | 9341 | 3.9703934 | 9374 | 3.9719249 |
| 9309 | 3.9689030 | 9342 | 3.9704399 | 9375 | 3.9719713 |
| 9310 | 3.9689497 | 9343 | 3.9704863 | 9376 | 3.9720176 |
| 9311 | 3.9689963 | 9344 | 3.9705328 | 9377 | 3.9720639 |
| 9312 | 3.9690430 | 9345 | 3.9705793 | 9378 | 3.9721102 |
| 9313 | 3.9690896 | 9346 | 3.9706258 | 9379 | 3.9721565 |
| 9314 | 3.9691362 | 9347 | 3.9706722 | 9380 | 3.9722028 |
| 9315 | 3.9691829 | 9348 | 3.9707187 | 9381 | 3.9722491 |
| 9316 | 3.9692295 | 9349 | 3.9707652 | 9382 | 3.9722954 |
| 9317 | 3.9692761 | 9350 | 3.9708116 | 9383 | 3.9723417 |
| 9318 | 3.9693227 | 9351 | 3.9708581 | 9384 | 3.9723880 |
| 9319 | 3.9693693 | 9352 | 3.9709045 | 9385 | 3.9724343 |
| 9320 | 3.9694159 | 9353 | 3.9709509 | 9386 | 3.9724805 |
| 9321 | 3.9694625 | 9354 | 3.9709974 | 9387 | 3.9725268 |
| 9322 | 3.9695091 | 9355 | 3.9710438 | 9388 | 3.9725731 |
| 9323 | 3.9695557 | 9356 | 3.9710902 | 9389 | 3.9726193 |
| 9324 | 3.9696023 | 9357 | 3.9711366 | 9390 | 3.9726656 |
| 9325 | 3.9696488 | 9358 | 3.9711830 | 9391 | 3.9727118 |
| 9326 | 3.9696954 | 9359 | 3.9712294 | 9392 | 3.9727581 |
| 9327 | 3.9697420 | 9360 | 3.9712758 | 9393 | 3.9728043 |
| 9328 | 3.9697885 | 9361 | 3.9713222 | 9394 | 3.9728506 |
| 9329 | 3.9698351 | 9362 | 3.9713686 | 9395 | 3.9728968 |
| 9330 | 3.9698816 | 9363 | 3.9714150 | 9396 | 3.9729430 |
| 9331 | 3.9699282 | 9364 | 3.9714614 | 9397 | 3.9729892 |
| 9332 | 3.9699747 | 9365 | 3.9715078 | 9398 | 3.9730354 |
| 9333 | 3.9700213 | 9366 | 3.9715542 | 9399 | 3.9730816 |
| 9334 | 3.9700678 | 9367 | 3.9716005 | 9300 | 3.9731279 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9401 | 3.9731741 | 9434 | 3.9746959 | 9467 | 3.9762124 |
| 9402 | 3.9732202 | 9435 | 3.9747419 | 9468 | 3.9762582 |
| 9403 | 3.9732664 | 9436 | 3.9747879 | 9469 | 3.9763041 |
| 9404 | 3.9733126 | 9437 | 3.9748340 | 9470 | 3.9763500 |
| 9405 | 3.9733588 | 9438 | 3.9748800 | 9471 | 3.9763958 |
| 9406 | 3.9734050 | 9439 | 3.9749260 | 9472 | 3.9764417 |
| 9407 | 3.9734511 | 9440 | 3.9749720 | 9473 | 3.9764875 |
| 9408 | 3.9734973 | 9441 | 3.9750180 | 9474 | 3.9765334 |
| 9409 | 3.9735435 | 9442 | 3.9750640 | 9475 | 3.9765792 |
| 9410 | 3.9735896 | 9443 | 3.9751100 | 9476 | 3.9766251 |
| 9411 | 3.9736358 | 9444 | 3.9751560 | 9477 | 3.9766709 |
| 9412 | 3.9736819 | 9445 | 3.9752020 | 9478 | 3.9767167 |
| 9413 | 3.9737281 | 9446 | 3.9752479 | 9479 | 3.9767625 |
| 9414 | 3.9737742 | 9447 | 3.9752939 | 9480 | 3.9768083 |
| 9415 | 3.9738203 | 9448 | 3.9753399 | 9481 | 3.9768541 |
| 9416 | 3.9738664 | 9449 | 3.9753858 | 9482 | 3.9768999 |
| 9417 | 3.9739126 | 9450 | 3.9754318 | 9483 | 3.9769457 |
| 9418 | 3.9739587 | 9451 | 3.9754778 | 9484 | 3.9769915 |
| 9419 | 3.9740048 | 9452 | 3.9755237 | 9485 | 3.9770373 |
| 9420 | 3.9740509 | 9453 | 3.9755697 | 9486 | 3.9770831 |
| 9421 | 3.9740970 | 9454 | 3.9756156 | 9487 | 3.9771289 |
| 9422 | 3.9741431 | 9455 | 3.9756615 | 9488 | 3.9771747 |
| 9423 | 3.9741892 | 9456 | 3.9757075 | 9489 | 3.9772204 |
| 9424 | 3.9742353 | 9457 | 3.9757534 | 9490 | 3.9772662 |
| 9425 | 3.9742814 | 9458 | 3.9757993 | 9491 | 3.9773120 |
| 9426 | 3.9743274 | 9459 | 3.9758452 | 9492 | 3.9773577 |
| 9427 | 3.9743735 | 9460 | 3.9758911 | 9493 | 3.9774035 |
| 9428 | 3.9744196 | 9461 | 3.9759370 | 9494 | 3.9774492 |
| 9429 | 3.9744656 | 9462 | 3.9759829 | 9495 | 3.9774950 |
| 9430 | 3.9745117 | 9463 | 3.9760288 | 9496 | 3.9775407 |
| 9431 | 3.9745577 | 9464 | 3.9760747 | 9497 | 3.9775864 |
| 9432 | 3.9746038 | 9465 | 3.9761206 | 9498 | 3.9776322 |
| 9433 | 3.9746498 | 9466 | 3.9761665 | 9499 | 3.9776779 |
| 9434 | 3.9746959 | 9467 | 3.9762124 | 9500 | 3.9777236 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|---|---|---|---|---|---|
| 9501 | 3.9777693 | 9534 | 3.9792751 | 9567 | 3.9807758 |
| 9502 | 3.9778150 | 9535 | 3.9793207 | 9568 | 3.9808212 |
| 9503 | 3.9778607 | 9536 | 3.9793662 | 9569 | 3.9808666 |
| 9504 | 3.9779064 | 9537 | 3.9794118 | 9570 | 3.9809119 |
| 9505 | 3.9779521 | 9538 | 3.9794573 | 9571 | 3.9809573 |
| 9506 | 3.9779978 | 9539 | 3.9795028 | 9572 | 3.9810027 |
| 9507 | 3.9780435 | 9540 | 3.9795484 | 9573 | 3.9810481 |
| 9508 | 3.9780892 | 9541 | 3.9795939 | 9574 | 3.9810934 |
| 9509 | 3.9781348 | 9542 | 3.9796394 | 9575 | 3.9811388 |
| 9510 | 3.9781805 | 9543 | 3.9796849 | 9576 | 3.9811841 |
| 9511 | 3.9782262 | 9544 | 3.9797304 | 9577 | 3.9812295 |
| 9512 | 3.9782718 | 9545 | 3.9797759 | 9578 | 3.9812748 |
| 9513 | 3.9783175 | 9546 | 3.9798214 | 9579 | 3.9813202 |
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| 9530 | 3.9790929 | 9563 | 3.9805942 | 9596 | 3.9820902 |
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| 9603 | 3.9824069 | 9636 | 3.9838968 | 9669 | 3.9853816 |
| 9604 | 3.9824522 | 9637 | 3.9839419 | 9670 | 3.9854265 |
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| 9619 | 3.9831299 | 9652 | 3.9846173 | 9685 | 3.9860996 |
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| 9624 | 3.9833556 | 9657 | 3.9848422 | 9690 | 3.9863238 |
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| 9628 | 3.9835361 | 9661 | 3.9850221 | 9694 | 3.9865030 |
| 9629 | 3.9835812 | 9662 | 3.9850670 | 9695 | 3.9865478 |
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| 9632 | 3.9837165 | 9665 | 3.9852019 | 9698 | 3.9866822 |
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| 9634 | 3.9838066 | 9667 | 3.9852917 | 9700 | 3.9867717 |

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| 9706 | 3.9870403 | 9739 | 3.9885144 | 9772 | 3.9899835 |
| 9707 | 3.9870850 | 9740 | 3.9885590 | 9773 | 3.9900279 |
| 9708 | 3.9871298 | 9741 | 3.9886035 | 9774 | 3.9900723 |
| 9709 | 3.9871745 | 9742 | 3.9886481 | 9775 | 3.9901168 |
| 9710 | 3.9872192 | 9743 | 3.9886927 | 9776 | 3.9901612 |
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| 9712 | 3.9873087 | 9745 | 3.9887818 | 9778 | 3.9902500 |
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| 9717 | 3.9875322 | 9750 | 3.9890046 | 9783 | 3.9904721 |
| 9718 | 3.9875769 | 9751 | 3.9890492 | 9784 | 3.9905164 |
| 9719 | 3.9876216 | 9752 | 3.9890937 | 9785 | 3.9905608 |
| 9720 | 3.9876663 | 9753 | 3.9891382 | 9786 | 3.9906052 |
| 9721 | 3.9877109 | 9754 | 3.9891828 | 9787 | 3.9906496 |
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| 9732 | 3.9882021 | 9765 | 3.9896722 | 9798 | 3.9911374 |
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| 9804 | 3.9914033 | 9837 | 3.9928627 | 9870 | 3.9943172 |
| 9805 | 3.9914476 | 9838 | 3.9929068 | 9871 | 3.9943612 |
| 9806 | 3.9914919 | 9839 | 3.9929510 | 9872 | 3.9944051 |
| 9807 | 3.9915362 | 9840 | 3.9929951 | 9873 | 3.9944491 |
| 9808 | 3.9915805 | 9841 | 3.9930392 | 9874 | 3.9944931 |
| 9809 | 3.9916247 | 9842 | 3.9930834 | 9875 | 3.9945371 |
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| 9811 | 3.9917133 | 9844 | 3.9931716 | 9877 | 3.9946251 |
| 9812 | 3.9917575 | 9845 | 3.9932157 | 9878 | 3.9946690 |
| 9813 | 3.9918018 | 9846 | 3.9932598 | 9879 | 3.9947130 |
| 9814 | 3.9918461 | 9847 | 3.9933039 | 9880 | 3.9947569 |
| 9815 | 3.9918903 | 9848 | 3.9933480 | 9881 | 3.9948009 |
| 9816 | 3.9919345 | 9849 | 3.9933921 | 9882 | 3.9948448 |
| 9817 | 3.9919788 | 9850 | 3.9934362 | 9883 | 3.9948888 |
| 9818 | 3.9920230 | 9851 | 3.9934803 | 9884 | 3.9949327 |
| 9819 | 3.9920673 | 9852 | 3.9935244 | 9885 | 3.9949767 |
| 9820 | 3.9921115 | 9853 | 3.9935685 | 9886 | 3.9950206 |
| 9821 | 3.9921557 | 9854 | 3.9936126 | 9887 | 3.9950645 |
| 9822 | 3.9921999 | 9855 | 3.9936566 | 9888 | 3.9951085 |
| 9823 | 3.9922441 | 9856 | 3.9937007 | 9889 | 3.9951524 |
| 9824 | 3.9922884 | 9857 | 3.9937448 | 9890 | 3.9951963 |
| 9825 | 3.9923326 | 9858 | 3.9937888 | 9891 | 3.9952402 |
| 9826 | 3.9923768 | 9859 | 3.9938329 | 9892 | 3.9952841 |
| 9827 | 3.9924210 | 9860 | 3.9938769 | 9893 | 3.9953280 |
| 9828 | 3.9924651 | 9861 | 3.9939210 | 9894 | 3.9953719 |
| 9829 | 3.9925093 | 9862 | 3.9939650 | 9895 | 3.9954158 |
| 9830 | 3.9925535 | 9863 | 3.9940090 | 9896 | 3.9954597 |
| 9831 | 3.9925977 | 9864 | 3.9940531 | 9897 | 3.9955036 |
| 9832 | 3.9926419 | 9865 | 3.9940971 | 9898 | 3.9955474 |
| 9833 | 3.9926860 | 9866 | 3.9941411 | 9899 | 3.9955913 |
| 9834 | 3.9927302 | 9867 | 3.9941851 | 9900 | 3.9956351 |

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| 9903 | 3.9957668 | 9936 | 3.9972116 | 9969 | 3.9986516 |
| 9904 | 3.9958106 | 9937 | 3.9972553 | 9970 | 3.9986952 |
| 9905 | 3.9958545 | 9938 | 3.9972990 | 9971 | 3.9987387 |
| 9906 | 3.9958983 | 9939 | 3.9973427 | 9972 | 3.9987823 |
| 9907 | 3.9959422 | 9940 | 3.9973864 | 9973 | 3.9988258 |
| 9908 | 3.9959860 | 9941 | 3.9974301 | 9974 | 3.9988694 |
| 9909 | 3.9960298 | 9942 | 3.9974738 | 9975 | 3.9989129 |
| 9910 | 3.9960737 | 9943 | 3.9975174 | 9976 | 3.9989564 |
| 9911 | 3.9961175 | 9944 | 3.9975611 | 9977 | 3.9990000 |
| 9912 | 3.9961613 | 9945 | 3.9976048 | 9978 | 3.9990435 |
| 9913 | 3.9962051 | 9946 | 3.9976485 | 9979 | 3.9990870 |
| 9914 | 3.9962489 | 9947 | 3.9976921 | 9980 | 3.9991305 |
| 9915 | 3.9962927 | 9948 | 3.9977358 | 9981 | 3.9991741 |
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| 9918 | 3.9964241 | 9951 | 3.9978667 | 9984 | 3.9993046 |
| 9919 | 3.9964679 | 9952 | 3.9979104 | 9985 | 3.9993481 |
| 9920 | 3.9965117 | 9953 | 3.9979540 | 9986 | 3.9993916 |
| 9921 | 3.9965554 | 9954 | 3.9979976 | 9987 | 3.9994350 |
| 9922 | 3.9965992 | 9955 | 3.9980413 | 9988 | 3.9994785 |
| 9923 | 3.9966430 | 9956 | 3.9980849 | 9989 | 3.9995220 |
| 9924 | 3.9966868 | 9957 | 3.9981285 | 9990 | 3.9995655 |
| 9925 | 3.9967305 | 9958 | 3.9981721 | 9991 | 3.9996090 |
| 9926 | 3.9967743 | 9959 | 3.9982157 | 9992 | 3.9996524 |
| 9927 | 3.9968180 | 9960 | 3.9982593 | 9993 | 3.9996959 |
| 9928 | 3.9968618 | 9961 | 3.9983029 | 9994 | 3.9997393 |
| 9929 | 3.9969055 | 9962 | 3.9983465 | 9995 | 3.9997828 |
| 9930 | 3.9969492 | 9963 | 3.9983901 | 9996 | 3.9998262 |
| 9931 | 3.9969930 | 9964 | 3.9984337 | 9997 | 3.9998697 |
| 9932 | 3.9970367 | 9965 | 3.9984773 | 9998 | 3.9999131 |
| 9933 | 3.9970804 | 9966 | 3.9985209 | 9999 | 3.9999566 |
| 9934 | 3.9971242 | 9967 | 3.9985645 | 10000 | 4.0000000 |

# TABULA
## NUMERORUM QUADRATORUM ET CUBICORUM AB 1. USQUE AD 1000.

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| 2 | 4 | 8 |
| 3 | 9 | 27 |
| 4 | 16 | 64 |
| 5 | 25 | 125 |
| 6 | 36 | 216 |
| 7 | 49 | 343 |
| 8 | 64 | 512 |
| 9 | 81 | 729 |
| 10 | 100 | 1000 |
| 11 | 121 | 1331 |
| 12 | 144 | 1728 |
| 13 | 169 | 2197 |
| 14 | 196 | 2744 |
| 15 | 225 | 3375 |
| 16 | 256 | 4096 |
| 17 | 289 | 4913 |
| 18 | 324 | 5832 |
| 19 | 361 | 6859 |
| 20 | 400 | 8000 |
| 21 | 441 | 9261 |
| 22 | 484 | 10648 |
| 23 | 529 | 12167 |
| 24 | 576 | 13824 |
| 25 | 625 | 15625 |
| 26 | 676 | 17576 |
| 27 | 729 | 19683 |
| 28 | 784 | 21952 |
| 29 | 841 | 24389 |
| 30 | 900 | 27000 |
| 31 | 961 | 29791 |
| 32 | 1024 | 32768 |
| 33 | 1089 | 35937 |
| 34 | 1156 | 39304 |
| 35 | 1225 | 42875 |
| 36 | 1296 | 46656 |
| 37 | 1369 | 50653 |
| 38 | 1444 | 54872 |
| 39 | 1521 | 59319 |
| 40 | 1600 | 64000 |
| 41 | 1681 | 68921 |
| 42 | 1764 | 74088 |
| 43 | 1849 | 79507 |
| 44 | 1936 | 85184 |
| 45 | 2025 | 91125 |
| 46 | 2116 | 97336 |
| 47 | 2209 | 103823 |
| 48 | 2304 | 110592 |
| 49 | 2401 | 117649 |
| 50 | 2500 | 125000 |
| 51 | 2601 | 132651 |
| 52 | 2704 | 140608 |
| 53 | 2809 | 148877 |
| 54 | 2916 | 157464 |
| 55 | 3025 | 166375 |
| 56 | 3136 | 175616 |
| 57 | 3249 | 185193 |
| 58 | 3364 | 195112 |
| 59 | 3481 | 205379 |
| 60 | 3600 | 216000 |
| 61 | 3721 | 226981 |
| 62 | 3844 | 238328 |
| 63 | 3969 | 250047 |
| 64 | 4096 | 262144 |
| 65 | 4225 | 274625 |
| 66 | 4356 | 287496 |
| 67 | 4489 | 300763 |
| 68 | 4624 | 314432 |
| 69 | 4761 | 328509 |
| 70 | 4900 | 343000 |

| R. | Q. | C. | R. | Q. | C. |
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| 71 | 5041 | 357911 | 106 | 11236 | 1191016 |
| 72 | 5184 | 373248 | 107 | 11449 | 1225043 |
| 73 | 5329 | 389017 | 108 | 11664 | 1259712 |
| 74 | 5476 | 405224 | 109 | 11881 | 1295029 |
| 75 | 5625 | 421875 | 110 | 12100 | 1331000 |
| 76 | 5776 | 438976 | 111 | 12321 | 1367631 |
| 77 | 5929 | 456533 | 112 | 12544 | 1404928 |
| 78 | 6084 | 474552 | 113 | 12769 | 1442897 |
| 79 | 6241 | 493039 | 114 | 12996 | 1481544 |
| 80 | 6400 | 512000 | 115 | 13225 | 1520875 |
| 81 | 6561 | 531441 | 116 | 13456 | 1560896 |
| 82 | 6724 | 551368 | 117 | 13689 | 1601613 |
| 83 | 6889 | 571787 | 118 | 13924 | 1643032 |
| 84 | 7056 | 592704 | 119 | 14161 | 1685159 |
| 85 | 7225 | 614125 | 120 | 14400 | 1728000 |
| 86 | 7396 | 636056 | 121 | 14641 | 1771561 |
| 87 | 7569 | 658503 | 122 | 14884 | 1815848 |
| 88 | 7744 | 681472 | 123 | 15129 | 1860867 |
| 89 | 7921 | 704969 | 124 | 15376 | 1906624 |
| 90 | 8100 | 729000 | 125 | 15625 | 1953125 |
| 91 | 8281 | 753571 | 126 | 15876 | 2000376 |
| 92 | 8464 | 778688 | 127 | 16129 | 2048383 |
| 93 | 8649 | 804357 | 128 | 16384 | 2097152 |
| 94 | 8836 | 830584 | 129 | 16641 | 2146689 |
| 95 | 9025 | 857375 | 130 | 16900 | 2197000 |
| 96 | 9216 | 884736 | 131 | 17161 | 2248091 |
| 97 | 9409 | 912673 | 132 | 17424 | 2299968 |
| 98 | 9604 | 941192 | 133 | 17689 | 2352637 |
| 99 | 9801 | 970299 | 134 | 17956 | 2406104 |
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| 101 | 10201 | 1030301 | 136 | 18496 | 2515456 |
| 102 | 10404 | 1061208 | 137 | 18769 | 2571353 |
| 103 | 10609 | 1092727 | 138 | 19044 | 2628072 |
| 104 | 10816 | 1124864 | 139 | 19321 | 2685619 |
| 105 | 11025 | 1157625 | 140 | 19600 | 2744000 |

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| 141 | 19881 | 2803221 | 176 | 30976 | 5451776 |
| 142 | 20164 | 2863288 | 177 | 31329 | 5545233 |
| 143 | 20449 | 2924207 | 178 | 31684 | 5639752 |
| 144 | 20736 | 2985984 | 179 | 32041 | 5735339 |
| 145 | 21025 | 3048625 | 180 | 32400 | 5832000 |
| 146 | 21316 | 3112136 | 181 | 32761 | 5929741 |
| 147 | 21609 | 3176523 | 182 | 33124 | 6028568 |
| 148 | 21904 | 3241792 | 183 | 33489 | 6128487 |
| 149 | 22201 | 3307949 | 184 | 33856 | 6229504 |
| 150 | 22500 | 3375000 | 185 | 34225 | 6331625 |
| 151 | 22801 | 3442951 | 186 | 34596 | 6434856 |
| 152 | 23104 | 3511808 | 187 | 34969 | 6539203 |
| 153 | 23409 | 3581577 | 188 | 35344 | 6644672 |
| 154 | 23716 | 3652264 | 189 | 35721 | 6751269 |
| 155 | 24025 | 3723875 | 190 | 36100 | 6859000 |
| 156 | 24336 | 3796416 | 191 | 36481 | 6967871 |
| 157 | 24649 | 3869893 | 192 | 36864 | 7077888 |
| 158 | 24964 | 3944312 | 193 | 37249 | 7189057 |
| 159 | 25281 | 4019679 | 194 | 37636 | 7301384 |
| 160 | 25600 | 4096000 | 195 | 38025 | 7414875 |
| 161 | 25921 | 4173281 | 196 | 38416 | 7529536 |
| 162 | 26244 | 4251528 | 197 | 38809 | 7645373 |
| 163 | 26569 | 4330747 | 198 | 39204 | 7762392 |
| 164 | 26896 | 4410944 | 199 | 39601 | 7880599 |
| 165 | 27225 | 4492125 | 200 | 40000 | 8000000 |
| 166 | 27556 | 4574296 | 201 | 40401 | 8120601 |
| 167 | 27889 | 4657463 | 202 | 40804 | 8242408 |
| 168 | 28224 | 4741632 | 203 | 41209 | 8365427 |
| 169 | 28561 | 4826809 | 204 | 41616 | 8489664 |
| 170 | 28900 | 4913000 | 205 | 42025 | 8615125 |
| 171 | 29241 | 5000211 | 206 | 42436 | 8741816 |
| 172 | 29584 | 5088448 | 207 | 42849 | 8869743 |
| 173 | 29929 | 5177717 | 208 | 43264 | 8998912 |
| 174 | 30276 | 5268024 | 209 | 43681 | 9129329 |
| 175 | 30625 | 5359375 | 210 | 44100 | 9261000 |

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| 211 | 44521 | 9393931 | 246 | 60516 | 14886936 |
| 212 | 44944 | 9528128 | 247 | 61009 | 15069223 |
| 213 | 45369 | 9663597 | 248 | 61504 | 15252992 |
| 214 | 45796 | 9800344 | 249 | 62001 | 15438249 |
| 215 | 46225 | 9938375 | 250 | 62500 | 15625000 |
| 216 | 46656 | 10077696 | 251 | 63001 | 15813251 |
| 217 | 47089 | 10218313 | 252 | 63504 | 16003008 |
| 218 | 47524 | 10360232 | 253 | 64009 | 16194277 |
| 219 | 47961 | 10503459 | 254 | 64516 | 16387064 |
| 220 | 48400 | 10648000 | 255 | 65025 | 16581375 |
| 221 | 48841 | 10793861 | 256 | 65536 | 16777216 |
| 222 | 49284 | 10941048 | 257 | 66049 | 16974593 |
| 223 | 49729 | 11089567 | 258 | 66564 | 17173512 |
| 224 | 50176 | 11239424 | 259 | 67081 | 17373979 |
| 225 | 50625 | 11390625 | 260 | 67600 | 17576000 |
| 226 | 51076 | 11543176 | 261 | 68121 | 17779581 |
| 227 | 51529 | 11697083 | 262 | 68644 | 17984728 |
| 228 | 51984 | 11852352 | 263 | 69169 | 18191447 |
| 229 | 52441 | 12008989 | 264 | 69696 | 18399744 |
| 230 | 52900 | 12167000 | 265 | 70225 | 18609625 |
| 231 | 53361 | 12326391 | 266 | 70756 | 18821096 |
| 232 | 53824 | 12487168 | 267 | 71289 | 19034163 |
| 233 | 54289 | 12649337 | 268 | 71824 | 19248832 |
| 234 | 54756 | 12812904 | 269 | 72361 | 19465109 |
| 235 | 55225 | 12977875 | 270 | 72900 | 19683000 |
| 236 | 55696 | 13144256 | 271 | 73441 | 19902511 |
| 237 | 56169 | 13312053 | 272 | 73984 | 20123648 |
| 238 | 56644 | 13481272 | 273 | 74529 | 20346417 |
| 239 | 57121 | 13651919 | 274 | 75076 | 20570824 |
| 240 | 57600 | 13824000 | 275 | 75625 | 20796875 |
| 241 | 58081 | 13997521 | 276 | 76176 | 21024576 |
| 242 | 58564 | 14172488 | 277 | 76729 | 21253933 |
| 243 | 59049 | 14348907 | 278 | 77284 | 21484952 |
| 244 | 59536 | 14526784 | 279 | 77841 | 21717639 |
| 245 | 60025 | 14706125 | 280 | 78400 | 21952000 |

| R. | Q. | C. | R. | Q. | C. |
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| 281 | 78961 | 22188041 | 316 | 99856 | 31554496 |
| 282 | 79524 | 22425768 | 317 | 100489 | 31855013 |
| 283 | 80089 | 22665187 | 318 | 101124 | 32157432 |
| 284 | 80656 | 22906304 | 319 | 101761 | 32461759 |
| 285 | 81225 | 23149125 | 320 | 102400 | 32768000 |
| 286 | 81796 | 23393656 | 321 | 103041 | 33076161 |
| 287 | 82369 | 23639903 | 322 | 103684 | 33386248 |
| 288 | 82944 | 23887872 | 323 | 104329 | 33698267 |
| 289 | 83521 | 24137569 | 324 | 104976 | 34012224 |
| 290 | 84100 | 24389000 | 325 | 105625 | 34328125 |
| 291 | 84681 | 24642171 | 326 | 106276 | 34645976 |
| 292 | 85264 | 24897088 | 327 | 106929 | 34965783 |
| 293 | 85849 | 25153757 | 328 | 107584 | 35287552 |
| 294 | 86436 | 25412184 | 329 | 108241 | 35611289 |
| 295 | 87025 | 25672375 | 330 | 108900 | 35937000 |
| 296 | 87616 | 25934336 | 331 | 109561 | 36264691 |
| 297 | 88209 | 26198073 | 332 | 110224 | 36594368 |
| 298 | 88804 | 26463592 | 333 | 110889 | 36926037 |
| 299 | 89401 | 26730899 | 334 | 111556 | 37259704 |
| 300 | 90000 | 27000000 | 335 | 112225 | 37595375 |
| 301 | 90601 | 27270901 | 336 | 112896 | 37933056 |
| 302 | 91204 | 27543608 | 337 | 113569 | 38272753 |
| 303 | 91809 | 27818127 | 338 | 114244 | 38614472 |
| 304 | 92416 | 28094464 | 339 | 114921 | 38958219 |
| 305 | 93025 | 28372625 | 340 | 115600 | 39304000 |
| 306 | 93636 | 28652616 | 341 | 116281 | 39651821 |
| 307 | 94249 | 28934443 | 342 | 116964 | 40001688 |
| 308 | 94864 | 29218112 | 343 | 117649 | 40353607 |
| 309 | 95481 | 29503629 | 344 | 118336 | 40707584 |
| 310 | 96100 | 29791000 | 345 | 119025 | 41063625 |
| 311 | 96721 | 30080231 | 346 | 119716 | 41421736 |
| 312 | 97344 | 30371328 | 347 | 120409 | 41781923 |
| 313 | 97969 | 30664297 | 348 | 121104 | 42144192 |
| 314 | 98596 | 30959144 | 349 | 121801 | 42508549 |
| 315 | 99225 | 31255875 | 350 | 122500 | 42875000 |

| R. | Q. | C. |
|---|---|---|
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| 355 | 126025 | 44738875 |
| 356 | 126736 | 45118016 |
| 357 | 127449 | 45499293 |
| 358 | 128164 | 45882712 |
| 359 | 128881 | 46268279 |
| 360 | 129600 | 46656000 |
| 361 | 130321 | 47045881 |
| 362 | 131044 | 47437928 |
| 363 | 131769 | 47832147 |
| 364 | 132496 | 48228544 |
| 365 | 133225 | 48627125 |
| 366 | 133956 | 49027896 |
| 367 | 134689 | 49430863 |
| 368 | 135424 | 49836032 |
| 369 | 136161 | 50243409 |
| 370 | 136900 | 50653000 |
| 371 | 137641 | 51064811 |
| 372 | 138384 | 51478848 |
| 373 | 139129 | 51895117 |
| 374 | 139876 | 52313624 |
| 375 | 140625 | 52734375 |
| 376 | 141376 | 53157376 |
| 377 | 142129 | 53582633 |
| 378 | 142884 | 54010152 |
| 379 | 143641 | 54439939 |
| 380 | 144400 | 54872000 |
| 381 | 145161 | 55306341 |
| 382 | 145924 | 55742968 |
| 383 | 146689 | 56181887 |
| 384 | 147456 | 56623104 |
| 385 | 148225 | 57066625 |
| 386 | 148996 | 57512456 |
| 387 | 149769 | 57960603 |
| 388 | 150544 | 58411072 |
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| 390 | 152100 | 59319000 |
| 391 | 152881 | 59776471 |
| 392 | 153664 | 60236288 |
| 393 | 154449 | 60698457 |
| 394 | 155236 | 61162984 |
| 395 | 156025 | 61629875 |
| 396 | 156816 | 62099136 |
| 397 | 157609 | 62570773 |
| 398 | 158404 | 63044792 |
| 399 | 159201 | 63521199 |
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| 401 | 160801 | 64481201 |
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| 404 | 163216 | 65939264 |
| 405 | 164025 | 66430125 |
| 406 | 164836 | 66923416 |
| 407 | 165649 | 67419143 |
| 408 | 166464 | 67917312 |
| 409 | 167281 | 68417929 |
| 410 | 168100 | 68921000 |
| 411 | 168921 | 69426531 |
| 412 | 169744 | 69934528 |
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| 414 | 171396 | 70957944 |
| 415 | 172225 | 71473375 |
| 416 | 173056 | 71991296 |
| 417 | 173889 | 72511713 |
| 418 | 174724 | 73034632 |
| 419 | 175561 | 73560059 |
| 420 | 176400 | 74088000 |

| R. | Q. | C. |
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| 422 | 178084 | 75151448 |
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| 426 | 181476 | 77308776 |
| 427 | 182329 | 77854483 |
| 428 | 183184 | 78402752 |
| 429 | 184041 | 78953589 |
| 430 | 184900 | 79507000 |
| 431 | 185761 | 80062991 |
| 432 | 186624 | 80621568 |
| 433 | 187489 | 81182737 |
| 434 | 188356 | 81746504 |
| 435 | 189225 | 82312875 |
| 436 | 190096 | 82881856 |
| 437 | 190969 | 83453453 |
| 438 | 191844 | 84027672 |
| 439 | 192721 | 84604519 |
| 440 | 193600 | 85184000 |
| 441 | 194481 | 85766121 |
| 442 | 195364 | 86350888 |
| 443 | 196249 | 86938307 |
| 444 | 197136 | 87528384 |
| 445 | 198025 | 88121125 |
| 446 | 198916 | 88716536 |
| 447 | 199809 | 89314623 |
| 448 | 200704 | 89915392 |
| 449 | 201601 | 90518849 |
| 450 | 202500 | 91125000 |
| 451 | 203401 | 91733851 |
| 452 | 204304 | 92345408 |
| 453 | 205209 | 92959677 |
| 454 | 206116 | 93576664 |
| 455 | 207025 | 94196375 |

| R. | Q. | C. |
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| 461 | 212521 | 97972181 |
| 462 | 213444 | 98611128 |
| 463 | 214369 | 99252847 |
| 464 | 215296 | 99897344 |
| 465 | 216225 | 100544625 |
| 466 | 217156 | 101194696 |
| 467 | 218089 | 101847563 |
| 468 | 219024 | 102503232 |
| 469 | 219961 | 103161709 |
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| 474 | 224676 | 106496424 |
| 475 | 225625 | 107171875 |
| 476 | 226576 | 107850176 |
| 477 | 227529 | 108531333 |
| 478 | 228484 | 109215352 |
| 479 | 229441 | 109902239 |
| 480 | 230400 | 110592000 |
| 481 | 231361 | 111284641 |
| 482 | 232324 | 111980168 |
| 483 | 233289 | 112678587 |
| 484 | 234256 | 113379904 |
| 485 | 235225 | 114084125 |
| 486 | 236196 | 114791256 |
| 487 | 237169 | 115501303 |
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| 492 | 242064 | 119095488 |
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| 496 | 246016 | 122023936 |
| 497 | 247009 | 122763473 |
| 498 | 248004 | 123505992 |
| 499 | 249001 | 124251499 |
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| 501 | 251001 | 125751501 |
| 502 | 252004 | 126506008 |
| 503 | 253009 | 127263527 |
| 504 | 254016 | 128024064 |
| 505 | 255025 | 128787625 |
| 506 | 256036 | 129554216 |
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| 509 | 259081 | 131872229 |
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| 512 | 262144 | 134217728 |
| 513 | 263169 | 135005697 |
| 514 | 264196 | 135796744 |
| 515 | 265225 | 136590875 |
| 516 | 266256 | 137388096 |
| 517 | 267289 | 138188413 |
| 518 | 268324 | 138991832 |
| 519 | 269361 | 139798359 |
| 520 | 270400 | 140608000 |
| 521 | 271441 | 141420761 |
| 522 | 272484 | 142236648 |
| 523 | 273529 | 143055667 |
| 524 | 274576 | 143877824 |
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| R. | Q. | C. |
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| 526 | 276676 | 145531576 |
| 527 | 277729 | 146363183 |
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| 531 | 281961 | 149721291 |
| 532 | 283024 | 150568768 |
| 533 | 284089 | 151419437 |
| 534 | 285156 | 152273304 |
| 535 | 286225 | 153130375 |
| 536 | 287296 | 153990656 |
| 537 | 288369 | 154854153 |
| 538 | 289444 | 155720872 |
| 539 | 290521 | 156590819 |
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| 544 | 295936 | 160989184 |
| 545 | 297025 | 161878625 |
| 546 | 298116 | 162771336 |
| 547 | 299209 | 163667323 |
| 548 | 300304 | 164566592 |
| 549 | 301401 | 165469149 |
| 550 | 302500 | 166375000 |
| 551 | 303601 | 167284151 |
| 552 | 304704 | 168196608 |
| 553 | 305809 | 169112377 |
| 554 | 306916 | 170031464 |
| 555 | 308025 | 170953875 |
| 556 | 309136 | 171879616 |
| 557 | 310249 | 172808693 |
| 558 | 311364 | 173741112 |
| 559 | 312481 | 174676879 |
| 560 | 313600 | 175616000 |

| R. | Q. | C. |
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| 564 | 318096 | 179406144 |
| 565 | 319225 | 180362125 |
| 566 | 320356 | 181321496 |
| 567 | 321489 | 182284263 |
| 568 | 322624 | 183250432 |
| 569 | 323761 | 184220009 |
| 570 | 324900 | 185193000 |
| 571 | 326041 | 186169411 |
| 572 | 327184 | 187149248 |
| 573 | 328329 | 188132517 |
| 574 | 329476 | 189119224 |
| 575 | 330625 | 190109375 |
| 576 | 331776 | 191102976 |
| 577 | 332929 | 192100033 |
| 578 | 334084 | 193100552 |
| 579 | 335241 | 194104539 |
| 580 | 336400 | 195112000 |
| 581 | 337561 | 196122941 |
| 582 | 338724 | 197137368 |
| 583 | 339889 | 198155287 |
| 584 | 341056 | 199176704 |
| 585 | 342225 | 200201625 |
| 586 | 343396 | 201230056 |
| 587 | 344569 | 202262003 |
| 588 | 345744 | 203297472 |
| 589 | 346921 | 204336469 |
| 590 | 348100 | 205379000 |
| 591 | 349281 | 206425071 |
| 592 | 350464 | 207474688 |
| 593 | 351649 | 208527857 |
| 594 | 352836 | 209584584 |
| 595 | 354025 | 210644875 |
| 596 | 355216 | 211708736 |
| 597 | 356409 | 212776173 |
| 598 | 357604 | 213847192 |
| 599 | 358801 | 214921799 |
| 600 | 360000 | 216000000 |
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| 602 | 362404 | 218167208 |
| 603 | 363609 | 219256227 |
| 604 | 364816 | 220348864 |
| 605 | 366025 | 221445125 |
| 606 | 367236 | 222545016 |
| 607 | 368449 | 223648543 |
| 608 | 369664 | 224755712 |
| 609 | 370881 | 225866529 |
| 610 | 372100 | 226981000 |
| 611 | 373321 | 228099131 |
| 612 | 374544 | 229220928 |
| 613 | 375769 | 230346397 |
| 614 | 376996 | 231475544 |
| 615 | 378225 | 232608375 |
| 616 | 379456 | 233744896 |
| 617 | 380689 | 234885113 |
| 618 | 381924 | 236029032 |
| 619 | 383161 | 237176659 |
| 620 | 384400 | 238328000 |
| 621 | 385641 | 239483061 |
| 622 | 386884 | 240641848 |
| 623 | 388129 | 241804367 |
| 624 | 389376 | 242970624 |
| 625 | 390625 | 244140625 |
| 626 | 391876 | 245314376 |
| 627 | 393129 | 246491883 |
| 628 | 394384 | 247673152 |
| 629 | 395641 | 248858189 |
| 630 | 396900 | 250047000 |

| R. | Q. | C. | R. | Q. | C. |
|---|---|---|---|---|---|
| 631 | 398161 | 251239591 | 666 | 443556 | 295408296 |
| 632 | 399424 | 252435968 | 667 | 444889 | 296740963 |
| 633 | 400689 | 253636137 | 668 | 446224 | 298077632 |
| 634 | 401956 | 254840104 | 669 | 447561 | 299418309 |
| 635 | 403225 | 256047875 | 670 | 448900 | 300763000 |
| 636 | 404496 | 257259456 | 671 | 450241 | 302111711 |
| 637 | 405769 | 258474853 | 672 | 451584 | 303464448 |
| 638 | 407044 | 259694072 | 673 | 452929 | 304821217 |
| 639 | 408321 | 260917119 | 674 | 454276 | 306182024 |
| 640 | 409600 | 262144000 | 675 | 455625 | 307546875 |
| 641 | 410881 | 263374721 | 676 | 456976 | 308915776 |
| 642 | 412164 | 264609288 | 677 | 458329 | 310288733 |
| 643 | 413449 | 265847707 | 678 | 459684 | 311665752 |
| 644 | 414736 | 267089984 | 679 | 461041 | 313046839 |
| 645 | 416025 | 268336125 | 680 | 462400 | 314432000 |
| 646 | 417316 | 269586136 | 681 | 463761 | 315821241 |
| 647 | 418609 | 270840023 | 682 | 465124 | 317214568 |
| 648 | 419904 | 272097792 | 683 | 466489 | 318611987 |
| 649 | 421201 | 273359449 | 684 | 467856 | 320013504 |
| 650 | 422500 | 274625000 | 685 | 469225 | 321419125 |
| 651 | 423801 | 275894451 | 686 | 470596 | 322828856 |
| 652 | 425104 | 277167808 | 687 | 471969 | 324242703 |
| 653 | 426409 | 278445077 | 688 | 473344 | 325660672 |
| 654 | 427716 | 279726264 | 689 | 474721 | 327082769 |
| 655 | 429025 | 281011375 | 690 | 476100 | 328509000 |
| 656 | 430336 | 282300416 | 691 | 477481 | 329939371 |
| 657 | 431649 | 283593393 | 692 | 478864 | 331373888 |
| 658 | 432964 | 284890312 | 693 | 480249 | 332812557 |
| 659 | 434281 | 286191179 | 694 | 481636 | 334255384 |
| 660 | 435600 | 287496000 | 695 | 483025 | 335702375 |
| 661 | 436921 | 288804781 | 696 | 484416 | 337153536 |
| 662 | 438244 | 290117528 | 697 | 485809 | 338608873 |
| 663 | 439569 | 291434247 | 698 | 487204 | 340068392 |
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| 665 | 442225 | 294079625 | 700 | 490000 | 343000000 |

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| 703 | 494209 | 347428927 |
| 704 | 495616 | 348913664 |
| 705 | 497025 | 350402625 |
| 706 | 498436 | 351895816 |
| 707 | 499849 | 353393243 |
| 708 | 501264 | 354894912 |
| 709 | 502681 | 356400829 |
| 710 | 504100 | 357911000 |
| 711 | 505521 | 359425431 |
| 712 | 506944 | 360944128 |
| 713 | 508369 | 362467097 |
| 714 | 509796 | 363994344 |
| 715 | 511225 | 365525875 |
| 716 | 512656 | 367061696 |
| 717 | 514089 | 368601813 |
| 718 | 515524 | 370146232 |
| 719 | 516961 | 371694959 |
| 720 | 518400 | 373248000 |
| 721 | 519841 | 374805361 |
| 722 | 521284 | 376367048 |
| 723 | 522729 | 377933067 |
| 724 | 524176 | 379503424 |
| 725 | 525625 | 381078125 |
| 726 | 527076 | 382657176 |
| 727 | 528529 | 384240583 |
| 728 | 529984 | 385828352 |
| 729 | 531441 | 387420489 |
| 730 | 532900 | 389017000 |
| 731 | 534361 | 390617891 |
| 732 | 535824 | 392223168 |
| 733 | 537289 | 393832837 |
| 734 | 538756 | 395446904 |
| 735 | 540225 | 397065375 |

| R. | Q. | C. |
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| 739 | 546121 | 403583419 |
| 740 | 547600 | 405224000 |
| 741 | 549081 | 406869021 |
| 742 | 550564 | 408518488 |
| 743 | 552049 | 410172407 |
| 744 | 553536 | 411830784 |
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| 747 | 558009 | 416832723 |
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| 753 | 567009 | 426957777 |
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| 755 | 570025 | 430368875 |
| 756 | 571536 | 432081216 |
| 757 | 573049 | 433798093 |
| 758 | 574564 | 435519512 |
| 759 | 576081 | 437245479 |
| 760 | 577600 | 438976000 |
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| 762 | 580644 | 442450728 |
| 763 | 582169 | 444194947 |
| 764 | 583696 | 445943744 |
| 765 | 585225 | 447697125 |
| 766 | 586756 | 449455096 |
| 767 | 588289 | 451217663 |
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| 770 | 592900 | 456533000 |

| R. | Q. | C. |
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| 777 | 603729 | 469097433 |
| 778 | 605284 | 470910952 |
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| 783 | 613089 | 480048687 |
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| 787 | 619369 | 487443403 |
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| 789 | 622521 | 491169069 |
| 790 | 624100 | 493039000 |
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| 793 | 628849 | 498677257 |
| 794 | 630436 | 500566184 |
| 795 | 632025 | 502459875 |
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| 797 | 635209 | 506261573 |
| 798 | 636804 | 508169592 |
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| 801 | 641601 | 513922401 |
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| 805 | 648025 | 521660125 |

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| 811 | 657721 | 533411731 |
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| 813 | 660969 | 537367797 |
| 814 | 662596 | 539353144 |
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| 816 | 665856 | 543338496 |
| 817 | 667489 | 545338513 |
| 818 | 669124 | 547343432 |
| 819 | 670761 | 549353259 |
| 820 | 672400 | 551368000 |
| 821 | 674041 | 553387661 |
| 822 | 675684 | 555412248 |
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| 825 | 680625 | 561515625 |
| 826 | 682276 | 563559976 |
| 827 | 683929 | 565609283 |
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| 833 | 693889 | 578009537 |
| 834 | 695556 | 580093704 |
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| 837 | 700569 | 586376253 |
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| 840 | 705600 | 592704000 |

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| 846 | 715716 | 605495736 |
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| 848 | 719104 | 609800192 |
| 849 | 720801 | 611960049 |
| 850 | 722500 | 614125000 |
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| 853 | 727609 | 620650477 |
| 854 | 729316 | 622835864 |
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| 856 | 732736 | 627222016 |
| 857 | 734449 | 629422793 |
| 858 | 736164 | 631628712 |
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| 860 | 739600 | 636056000 |
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| 871 | 758641 | 660776311 |
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| R. | Q. | C. |
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| 879 | 772641 | 679151439 |
| 880 | 774400 | 681472000 |
| 881 | 776161 | 683797841 |
| 882 | 777924 | 686128968 |
| 883 | 779689 | 688465387 |
| 884 | 781456 | 690807104 |
| 885 | 783225 | 693154125 |
| 886 | 784996 | 695506456 |
| 887 | 786769 | 697864103 |
| 888 | 788544 | 700227072 |
| 889 | 790321 | 702595369 |
| 890 | 792100 | 704969000 |
| 891 | 793881 | 707347971 |
| 892 | 795664 | 709732288 |
| 893 | 797449 | 712121957 |
| 894 | 799236 | 714516984 |
| 895 | 801025 | 716917375 |
| 896 | 802816 | 719323136 |
| 897 | 804609 | 721734273 |
| 898 | 806404 | 724150792 |
| 899 | 808201 | 726572699 |
| 900 | 810000 | 729000000 |
| 901 | 811801 | 731432701 |
| 902 | 813604 | 733870808 |
| 903 | 815409 | 736314327 |
| 904 | 817216 | 738763264 |
| 905 | 819025 | 741217625 |
| 906 | 820836 | 743677416 |
| 907 | 822649 | 746142643 |
| 908 | 824464 | 748613312 |
| 909 | 826281 | 751089429 |
| 910 | 828100 | 753571000 |

| R. | Q. | C. |
|---|---|---|
| 911 | 829921 | 756058031 |
| 912 | 831744 | 758550528 |
| 913 | 833569 | 761048497 |
| 914 | 835396 | 763551944 |
| 915 | 837225 | 766060875 |
| 916 | 839056 | 768575296 |
| 917 | 840889 | 771095213 |
| 918 | 842724 | 773620632 |
| 919 | 844561 | 776151559 |
| 920 | 846400 | 778688000 |
| 921 | 848241 | 781229961 |
| 922 | 850084 | 783777448 |
| 923 | 851929 | 786330467 |
| 924 | 853776 | 788889024 |
| 925 | 855625 | 791453125 |
| 926 | 857476 | 794022776 |
| 927 | 859329 | 796597983 |
| 928 | 861184 | 799178752 |
| 929 | 863041 | 801765089 |
| 930 | 864900 | 804357000 |
| 931 | 866761 | 806954491 |
| 932 | 868624 | 809557568 |
| 933 | 870489 | 812166237 |
| 934 | 872356 | 814780504 |
| 935 | 874225 | 817400375 |
| 936 | 876096 | 820025856 |
| 937 | 877969 | 822656953 |
| 938 | 879844 | 825293672 |
| 939 | 881721 | 827936019 |
| 940 | 883600 | 830584000 |
| 941 | 885481 | 833237621 |
| 942 | 887364 | 835896888 |
| 943 | 889249 | 838561807 |
| 944 | 891136 | 841232384 |
| 945 | 893025 | 843908625 |
| 946 | 894916 | 846590536 |
| 947 | 896809 | 849278123 |
| 948 | 898704 | 851971392 |
| 949 | 900601 | 854670349 |
| 950 | 902500 | 857375000 |
| 951 | 904401 | 860085351 |
| 952 | 906304 | 862801408 |
| 953 | 908209 | 865523177 |
| 954 | 910116 | 868250664 |
| 955 | 912025 | 870983875 |
| 956 | 913936 | 873722816 |
| 957 | 915849 | 876467493 |
| 958 | 917764 | 879217912 |
| 959 | 919681 | 881974079 |
| 960 | 921600 | 884736000 |
| 961 | 923521 | 887503681 |
| 962 | 925444 | 890277128 |
| 963 | 927369 | 893056347 |
| 964 | 929296 | 895841344 |
| 965 | 931225 | 898632125 |
| 966 | 933156 | 901428696 |
| 967 | 935089 | 904231063 |
| 968 | 937024 | 907039232 |
| 969 | 938961 | 909853209 |
| 970 | 940900 | 912673000 |
| 971 | 942841 | 915498611 |
| 972 | 944784 | 918330048 |
| 973 | 946729 | 921167317 |
| 974 | 948676 | 924010424 |
| 975 | 950625 | 926859375 |
| 976 | 952576 | 929714176 |
| 977 | 954529 | 932574833 |
| 978 | 956484 | 935441352 |
| 979 | 958441 | 938313739 |
| 980 | 960400 | 941192000 |

| R. | Q. | C. | R. | Q. | C. |
|---|---|---|---|---|---|
| 981 | 962361 | 944076141 | 991 | 982081 | 973242271 |
| 982 | 964324 | 946966168 | 992 | 984064 | 976191488 |
| 983 | 966289 | 949862087 | 993 | 986049 | 979146657 |
| 984 | 968256 | 952763904 | 994 | 988036 | 982107784 |
| 985 | 970225 | 955671625 | 995 | 990025 | 985074875 |
| 986 | 972196 | 958585256 | 996 | 992016 | 988047936 |
| 987 | 974169 | 961504803 | 997 | 994009 | 991026973 |
| 988 | 976144 | 964430272 | 998 | 996004 | 994011992 |
| 989 | 978121 | 967361669 | 999 | 998001 | 997002999 |
| 990 | 980100 | 970299000 | 1000 | 1000000 | 1000000000 |

FINIS.

A. M. D. G.

# CANON
# TRIANGULORUM
## CONTINENS SINUS ET TANGENTES AD SINGULA MINUTA PRIMA,

Rad. = 10 000000.

| Minut. | 0. Grad. Sinus. | Tang. | Minut. | 89. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 60 | 10000000 | Infinit. |
| 1 | 29.09 | 29.09 | 59 | 99999.99 | 343774667. |
| 2 | 58.18 | 58.18 | 58 | 99999.98 | 171887319. |
| 3 | 87.27 | 87.27 | 57 | 99999.96 | 114591530. |
| 4 | 116.36 | 116.36 | 56 | 99999.93 | 85943630. |
| 5 | 145.44 | 145.44 | 55 | 99999.89 | 68754887. |
| 6 | 174.53 | 174.53 | 54 | 99999.85 | 57295721. |
| 7 | 203.62 | 203.62 | 53 | 99999.79 | 49110600. |
| 8 | 232.71 | 232.71 | 52 | 99999.73 | 42971757. |
| 9 | 261.80 | 261.80 | 51 | 99999.66 | 38197099. |
| 10 | 290.89 | 290.89 | 50 | 99999.58 | 34377371. |
| 11 | 319.98 | 319.98 | 49 | 99999.49 | 31252137. |
| 12 | 349.06 | 349.07 | 48 | 99999.39 | 28647773. |
| 13 | 378.15 | 378.16 | 47 | 99999.28 | 26444080. |
| 14 | 407.24 | 407.25 | 46 | 99999.17 | 24555198. |
| 15 | 436.33 | 436.33 | 45 | 99999.05 | 22918166. |
| 16 | 465.42 | 465.42 | 44 | 99998.92 | 21485762. |
| 17 | 494.51 | 494.51 | 43 | 99998.78 | 20221875. |
| 18 | 523.60 | 523.60 | 42 | 99998.63 | 19098419. |
| 19 | 552.68 | 552.69 | 41 | 99998.47 | 18093220. |
| 20 | 581.77 | 581.78 | 40 | 99998.31 | 17188540. |
| 21 | 610.86 | 610.87 | 39 | 99998.13 | 16370019. |
| 22 | 639.95 | 639.96 | 38 | 99997.95 | 15625908. |
| 23 | 669.04 | 669.05 | 37 | 99997.76 | 14946502. |
| 24 | 698.13 | 698.14 | 36 | 99997.56 | 14323712. |
| 25 | 727.21 | 727.23 | 35 | 99997.36 | 13750745. |
| 26 | 756.30 | 756.32 | 34 | 99997.14 | 13221851. |
| 27 | 785.39 | 785.41 | 33 | 99996.92 | 12732134. |
| 28 | 814.48 | 814.50 | 32 | 99996.68 | 12277396. |
| 29 | 843.57 | 843.60 | 31 | 99996.44 | 11854018. |
| 30 | 872.65 | 872.69 | 30 | 99996.19 | 11458865. |

| Minut. | 0. Grad. Sinus. | Tang. | Minut. | 89. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 872.65 | 872.69 | 30 | 99996.19 | 11458865.0 |
| 31 | 901.74 | 901.68 | 29 | 99995.93 | 11089205.1 |
| 32 | 930.83 | 930.87 | 28 | 99995.66 | 10742648.4 |
| 33 | 959.92 | 959.96 | 27 | 99995.39 | 10417094.5 |
| 34 | 989.00 | 989.05 | 26 | 99995.11 | 10110690.2 |
| 35 | 1018.09 | 1018.14 | 25 | 99994.82 | 9821794.3 |
| 36 | 1047.18 | 1047.24 | 24 | 99994.52 | 9548947.5 |
| 37 | 1076.27 | 1076.33 | 23 | 99994.21 | 9290848.7 |
| 38 | 1105.35 | 1105.42 | 22 | 99993.89 | 9046333.6 |
| 39 | 1134.44 | 1134.51 | 21 | 99993.56 | 8814357.2 |
| 40 | 1163.53 | 1163.61 | 20 | 99993.23 | 8593979.1 |
| 41 | 1192.61 | 1192.70 | 19 | 99992.89 | 8384350.7 |
| 42 | 1221.70 | 1221.79 | 18 | 99992.54 | 8184704.1 |
| 43 | 1250.79 | 1250.88 | 17 | 99992.18 | 7994343.0 |
| 44 | 1279.87 | 1279.98 | 16 | 99991.81 | 7812634.2 |
| 45 | 1308.96 | 1309.07 | 15 | 99991.43 | 7639000.9 |
| 46 | 1338.05 | 1338.17 | 14 | 99991.04 | 7472916.5 |
| 47 | 1367.13 | 1367.26 | 13 | 99990.65 | 7313899.1 |
| 48 | 1396.22 | 1396.35 | 12 | 99990.25 | 7161507.0 |
| 49 | 1425.30 | 1425.45 | 11 | 99989.84 | 7015334.6 |
| 50 | 1454.39 | 1454.54 | 10 | 99989.42 | 6875008.7 |
| 51 | 1483.48 | 1483.64 | 9 | 99988.99 | 6740185.4 |
| 52 | 1512.56 | 1512.73 | 8 | 99988.55 | 6610547.3 |
| 53 | 1541.65 | 1541.83 | 7 | 99988.11 | 6485800.8 |
| 54 | 1570.73 | 1570.93 | 6 | 99987.66 | 6365674.1 |
| 55 | 1599.82 | 1600.02 | 5 | 99987.20 | 6249915.4 |
| 56 | 1628.90 | 1629.12 | 4 | 99986.73 | 6138290.5 |
| 57 | 1657.99 | 1658.21 | 3 | 99986.25 | 6030582.0 |
| 58 | 1687.07 | 1687.31 | 2 | 99985.76 | 5926587.2 |
| 59 | 1716.16 | 1716.41 | 1 | 99985.27 | 5826117.4 |
| 60 | 1745.25 | 1745.51 | 0 | 99984.77 | 5728996.2 |

| Minut. | 1. Grad. | | Minut. | 89. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 1745.24 | 1745.51 | 60 | 99984.77 | 5728996.16 |
| 1 | 1774.32 | 1774.60 | 59 | 99984.26 | 5635058.96 |
| 2 | 1803.41 | 1803.70 | 58 | 99983.74 | 5544151.67 |
| 3 | 1832.49 | 1832.80 | 57 | 99983.21 | 5456130.03 |
| 4 | 1861.58 | 1861.90 | 56 | 99982.67 | 5370858.75 |
| 5 | 1890.66 | 1891.00 | 55 | 99982.12 | 5288210.91 |
| 6 | 1919.74 | 1920.10 | 54 | 99981.57 | 5208067.26 |
| 7 | 1948.83 | 1949.20 | 53 | 99981.01 | 5130315.66 |
| 8 | 1977.91 | 1978.30 | 52 | 99980.44 | 5054850.59 |
| 9 | 2006.99 | 2007.40 | 51 | 99979.86 | 4981572.64 |
| 10 | 2036.08 | 2036.50 | 50 | 99979.27 | 4910388.06 |
| 11 | 2065.16 | 2065.60 | 49 | 99978.67 | 4841208.41 |
| 12 | 2094.24 | 2094.70 | 48 | 99978.06 | 4773950.14 |
| 13 | 2123.32 | 2123.80 | 47 | 99977.45 | 4708534.30 |
| 14 | 2152.41 | 2152.91 | 46 | 99976.83 | 4644886.20 |
| 15 | 2181.49 | 2182.01 | 45 | 99976.20 | 4582935.12 |
| 16 | 2210.57 | 2211.11 | 44 | 99975.56 | 4522614.07 |
| 17 | 2239.65 | 2240.21 | 43 | 99974.91 | 4463859.56 |
| 18 | 2268.73 | 2269.32 | 42 | 99974.25 | 4406611.32 |
| 19 | 2297.81 | 2298.42 | 41 | 99973.59 | 4350812.16 |
| 20 | 2326.90 | 2327.53 | 40 | 99972.92 | 4296407.73 |
| 21 | 2355.98 | 2356.63 | 39 | 99972.24 | 4243346.39 |
| 22 | 2385.06 | 2385.74 | 38 | 99971.55 | 4191578.99 |
| 23 | 2414.14 | 2414.84 | 37 | 99970.85 | 4141058.76 |
| 24 | 2443.22 | 2443.95 | 36 | 99970.14 | 4091741.16 |
| 25 | 2472.30 | 2473.05 | 35 | 99969.43 | 4043583.75 |
| 26 | 2501.38 | 2502.16 | 34 | 99968.71 | 3996546.05 |
| 27 | 2530.46 | 2531.27 | 33 | 99967.98 | 3950589.46 |
| 28 | 2559.54 | 2560.38 | 32 | 99967.24 | 3905677.11 |
| 29 | 2588.62 | 2589.48 | 31 | 99966.49 | 3861773.81 |
| 30 | 2617.69 | 2618.59 | 30 | 99965.73 | 3818845.93 |

| Minut. | 1. Grad. | | Minut. | 88. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 2617.69 | 2618.59 | 30 | 99965.73 | 3818845.93 |
| 31 | 2646.77 | 2647.70 | 29 | 99964.96 | 3776861.30 |
| 32 | 2675.85 | 2676.81 | 28 | 99964.19 | 3735789.17 |
| 33 | 2704.93 | 2705.92 | 27 | 99963.41 | 3695600.11 |
| 34 | 2734.01 | 2735.03 | 26 | 99962.62 | 3656265.92 |
| 35 | 2763.09 | 2764.14 | 25 | 99961.82 | 3617759.62 |
| 36 | 2792.16 | 2793.25 | 24 | 99961.01 | 3580055.33 |
| 37 | 2821.24 | 2822.36 | 23 | 99960.19 | 3543128.25 |
| 38 | 2850.32 | 2851.48 | 22 | 99959.36 | 3506954.58 |
| 39 | 2879.40 | 2880.59 | 21 | 99958.53 | 3471511.50 |
| 40 | 2908.47 | 2909.70 | 20 | 99957.69 | 3436777.09 |
| 41 | 2937.55 | 2938.82 | 19 | 99956.84 | 3402730.29 |
| 42 | 2966.62 | 2967.93 | 18 | 99955.98 | 3369350.89 |
| 43 | 2995.70 | 2997.05 | 17 | 99955.11 | 3336619.45 |
| 44 | 3024.78 | 3026.16 | 16 | 99954.24 | 3304517.27 |
| 45 | 3053.85 | 3055.28 | 15 | 99953.36 | 3273026.37 |
| 46 | 3082.93 | 3084.39 | 14 | 99952.47 | 3242129.46 |
| 47 | 3112.00 | 3113.51 | 13 | 99951.57 | 3211809.88 |
| 48 | 3141.08 | 3142.63 | 12 | 99950.66 | 3182051.60 |
| 49 | 3170.15 | 3171.74 | 11 | 99949.74 | 3152839.16 |
| 50 | 3199.22 | 3200.86 | 10 | 99948.81 | 3124157.67 |
| 51 | 3228.30 | 3229.98 | 9 | 99947.88 | 3095992.80 |
| 52 | 3257.37 | 3259.10 | 8 | 99946.94 | 3068330.70 |
| 53 | 3286.44 | 3288.22 | 7 | 99945.99 | 3041158.02 |
| 54 | 3315.52 | 3317.34 | 6 | 99945.03 | 3014461.89 |
| 55 | 3344.59 | 3346.46 | 5 | 99944.06 | 2988229.86 |
| 56 | 3373.66 | 3375.58 | 4 | 99943.08 | 2962449.95 |
| 57 | 3402.73 | 3404.71 | 3 | 99942.09 | 2937110.55 |
| 58 | 3431.81 | 3433.83 | 2 | 99941.09 | 2912200.47 |
| 59 | 3460.88 | 3462.95 | 1 | 99940.09 | 2887708.88 |
| 60 | 3489.95 | 3492.08 | 0 | 99939.08 | 2863625.33 |

| Minut. | 2. Grad. | | Minut. | 87. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 3489.95 | 3492.08 | 60 | 99939.08 | 28636255.33 |
| 1 | 3519.02 | 3521.20 | 59 | 99938.06 | 28399399.69 |
| 2 | 3548.09 | 3550.33 | 58 | 99937.03 | 28166421.18 |
| 3 | 3577.16 | 3579.45 | 57 | 99935.99 | 27937233.33 |
| 4 | 3606.23 | 3608.58 | 56 | 99934.95 | 27711739.99 |
| 5 | 3635.30 | 3637.71 | 55 | 99933.90 | 27489852.28 |
| 6 | 3664.37 | 3666.83 | 54 | 99932.84 | 27271486.61 |
| 7 | 3693.44 | 3695.96 | 53 | 99931.77 | 27056555.68 |
| 8 | 3722.51 | 3725.09 | 52 | 99930.69 | 26844984.43 |
| 9 | 3751.58 | 3754.22 | 51 | 99929.60 | 26636690.04 |
| 10 | 3780.65 | 3783.35 | 50 | 99928.51 | 26431599.96 |
| 11 | 3809.71 | 3812.48 | 49 | 99927.40 | 26229638.84 |
| 12 | 3838.78 | 3841.61 | 48 | 99926.29 | 26030738.58 |
| 13 | 3867.85 | 3870.74 | 47 | 99925.17 | 25834822.27 |
| 14 | 3896.91 | 3899.88 | 46 | 99924.04 | 25641832.23 |
| 15 | 3925.98 | 3929.01 | 45 | 99922.90 | 25451699.96 |
| 16 | 3955.05 | 3958.14 | 44 | 99921.75 | 25264361.15 |
| 17 | 3984.11 | 3987.28 | 43 | 99920.60 | 25079751.68 |
| 18 | 4013.18 | 4016.41 | 42 | 99919.44 | 24897822.62 |
| 19 | 4042.24 | 4045.55 | 41 | 99918.27 | 24718511.19 |
| 20 | 4071.31 | 4074.69 | 40 | 99917.09 | 24541758.78 |
| 21 | 4100.37 | 4103.83 | 39 | 99915.90 | 24367509.95 |
| 22 | 4129.44 | 4132.96 | 38 | 99914.70 | 24195711.40 |
| 23 | 4158.50 | 4162.10 | 37 | 99913.49 | 24026311.99 |
| 24 | 4187.57 | 4191.24 | 36 | 99912.28 | 23859277.72 |
| 25 | 4216.63 | 4220.38 | 35 | 99911.06 | 23694533.72 |
| 26 | 4245.69 | 4249.52 | 34 | 99909.83 | 23532052.25 |
| 27 | 4274.75 | 4278.66 | 33 | 99908.59 | 23371777.72 |
| 28 | 4303.82 | 4307.81 | 32 | 99907.34 | 23213666.65 |
| 29 | 4332.88 | 4336.95 | 31 | 99906.08 | 23057677.67 |
| 30 | 4361.94 | 4366.09 | 30 | 99904.82 | 22903765.55 |

| Minut. | 2. Grad. | | Minut. | 87. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 4361.94 | 4366.09 | 30 | 99904.82 | 22903761.55 |
| 31 | 4391.00 | 4395.24 | 29 | 99903.55 | 2275189.16 |
| 32 | 4420.06 | 4424.38 | 28 | 99902.27 | 2260201.48 |
| 33 | 4449.12 | 4453.53 | 27 | 99900.98 | 2245409.59 |
| 34 | 4478.18 | 4482.68 | 26 | 99899.68 | 2230809.67 |
| 35 | 4507.24 | 4511.82 | 25 | 99898.37 | 2216398.02 |
| 36 | 4536.30 | 4540.97 | 24 | 99897.05 | 2202171.00 |
| 37 | 4565.36 | 4570.12 | 23 | 99895.73 | 2188125.10 |
| 38 | 4594.42 | 4599.27 | 22 | 99894.40 | 2174256.87 |
| 39 | 4623.47 | 4628.42 | 21 | 99893.06 | 2160562.96 |
| 40 | 4652.53 | 4657.57 | 20 | 99891.71 | 2147040.10 |
| 41 | 4681.59 | 4686.73 | 19 | 99890.35 | 2133685.11 |
| 42 | 4710.64 | 4715.88 | 18 | 99888.98 | 2120494.88 |
| 43 | 4739.70 | 4745.03 | 17 | 99887.61 | 2107466.37 |
| 44 | 4768.76 | 4774.19 | 16 | 99886.23 | 2094596.63 |
| 45 | 4797.81 | 4803.34 | 15 | 99884.84 | 2081882.76 |
| 46 | 4826.87 | 4832.50 | 14 | 99883.44 | 2069321.96 |
| 47 | 4855.92 | 4861.66 | 13 | 99882.03 | 2056911.47 |
| 48 | 4884.98 | 4890.82 | 12 | 99880.61 | 2044648.61 |
| 49 | 4914.03 | 4919.97 | 11 | 99879.18 | 2032530.75 |
| 50 | 4943.08 | 4949.13 | 10 | 99877.75 | 2020555.35 |
| 51 | 4972.14 | 4978.29 | 9 | 99876.31 | 2008719.89 |
| 52 | 5001.19 | 5007.46 | 8 | 99874.86 | 1997021.95 |
| 53 | 5030.24 | 5036.62 | 7 | 99873.40 | 1985459.12 |
| 54 | 5059.29 | 5065.78 | 6 | 99871.93 | 1974029.10 |
| 55 | 5088.35 | 5094.95 | 5 | 99870.45 | 1962729.59 |
| 56 | 5117.40 | 5124.11 | 4 | 99868.97 | 1951558.37 |
| 57 | 5146.45 | 5153.28 | 3 | 99867.48 | 1940513.27 |
| 58 | 5175.50 | 5182.44 | 2 | 99865.98 | 1929592.17 |
| 59 | 5204.55 | 5211.61 | 1 | 99864.47 | 1918792.98 |
| 60 | 5233.60 | 5240.78 | 0 | 99862.95 | 1908113.67 |

| Minut. | 3. Grad. | | Minut. | 86. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 5233.60 | 5240.78 | 60 | 99862.95 | 1908113.67 |
| 1 | 5262.64 | 5269.95 | 59 | 99861.42 | 1897552.26 |
| 2 | 5291.69 | 5299.12 | 58 | 99859.89 | 1887106.80 |
| 3 | 5320.74 | 5328.29 | 57 | 99858.35 | 1876775.39 |
| 4 | 5349.79 | 5357.46 | 56 | 99856.80 | 1866556.18 |
| 5 | 5378.83 | 5386.63 | 55 | 99855.24 | 1856447.34 |
| 6 | 5407.88 | 5415.81 | 54 | 99853.67 | 1846447.09 |
| 7 | 5436.93 | 5444.98 | 53 | 99852.09 | 1836553.70 |
| 8 | 5465.97 | 5474.16 | 52 | 99850.50 | 1826765.44 |
| 9 | 5495.02 | 5503.33 | 51 | 99848.91 | 1817080.67 |
| 10 | 5524.06 | 5532.51 | 50 | 99847.31 | 1807497.74 |
| 11 | 5553.11 | 5561.69 | 49 | 99845.70 | 1798015.05 |
| 12 | 5582.15 | 5590.87 | 48 | 99844.08 | 1788631.04 |
| 13 | 5611.19 | 5620.05 | 47 | 99842.45 | 1779344.17 |
| 14 | 5640.24 | 5649.23 | 46 | 99840.81 | 1770152.94 |
| 15 | 5669.28 | 5678.41 | 45 | 99839.16 | 1761055.88 |
| 16 | 5698.32 | 5707.59 | 44 | 99837.51 | 1752051.55 |
| 17 | 5727.36 | 5736.78 | 43 | 99835.85 | 1743138.54 |
| 18 | 5756.40 | 5765.96 | 42 | 99834.18 | 1734315.46 |
| 19 | 5785.44 | 5795.15 | 41 | 99832.50 | 1725580.95 |
| 20 | 5814.48 | 5824.34 | 40 | 99830.81 | 1716933.69 |
| 21 | 5843.52 | 5853.52 | 39 | 99829.11 | 1708372.38 |
| 22 | 5872.56 | 5882.71 | 38 | 99827.41 | 1699895.74 |
| 23 | 5901.60 | 5911.90 | 37 | 99825.70 | 1691502.51 |
| 24 | 5930.64 | 5941.09 | 36 | 99823.98 | 1683191.48 |
| 25 | 5959.67 | 5970.29 | 35 | 99822.25 | 1674961.44 |
| 26 | 5988.71 | 5999.48 | 34 | 99820.51 | 1666811.20 |
| 27 | 6017.75 | 6028.67 | 33 | 99818.76 | 1658739.61 |
| 28 | 6046.78 | 6057.87 | 32 | 99817.01 | 1650745.55 |
| 29 | 6075.82 | 6087.06 | 31 | 99815.25 | 1642827.89 |
| 30 | 6104.85 | 6116.26 | 30 | 99813.48 | 1634985.55 |

| Minut. | 3. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 6104.85 | 6116.26 |
| 31 | 6133.89 | 6145.46 |
| 32 | 6162.92 | 6174.66 |
| 33 | 6191.96 | 6203.86 |
| 34 | 6220.99 | 6233.06 |
| 35 | 6250.02 | 6262.26 |
| 36 | 6279.05 | 6291.47 |
| 37 | 6308.08 | 6320.67 |
| 38 | 6337.11 | 6349.88 |
| 39 | 6366.14 | 6379.08 |
| 40 | 6395.17 | 6408.29 |
| 41 | 6424.20 | 6437.50 |
| 42 | 6453.23 | 6466.71 |
| 43 | 6482.26 | 6495.92 |
| 44 | 6511.29 | 6525.13 |
| 45 | 6540.31 | 6554.35 |
| 46 | 6569.34 | 6583.56 |
| 47 | 6598.36 | 6612.78 |
| 48 | 6627.39 | 6641.99 |
| 49 | 6656.41 | 6671.21 |
| 50 | 6685.44 | 6700.43 |
| 51 | 6714.46 | 6729.65 |
| 52 | 6743.48 | 6758.87 |
| 53 | 6772.51 | 6788.09 |
| 54 | 6801.53 | 6817.32 |
| 55 | 6830.55 | 6846.54 |
| 56 | 6859.57 | 6875.77 |
| 57 | 6888.59 | 6904.99 |
| 58 | 6917.61 | 6934.22 |
| 59 | 6946.63 | 6963.45 |
| 60 | 6975.65 | 6992.68 |

| Minut. | 86. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 99813.48 | 16349855 |
| 29 | 99811.70 | 16272174.4 |
| 28 | 99809.91 | 16195224.3 |
| 27 | 99808.11 | 16118994.9 |
| 26 | 99806.30 | 16043481.9 |
| 25 | 99804.49 | 15968667.4 |
| 24 | 99802.67 | 15894544.8 |
| 23 | 99800.84 | 15821104.5 |
| 22 | 99799.00 | 15748334.7 |
| 21 | 99797.15 | 15676234.3 |
| 20 | 99795.29 | 15604784.1 |
| 19 | 99793.43 | 15533980.6 |
| 18 | 99791.56 | 15463814.1 |
| 17 | 99789.68 | 15394274.6 |
| 16 | 99787.79 | 15325355.8 |
| 15 | 99785.89 | 15257051.7 |
| 14 | 99783.98 | 15189349.0 |
| 13 | 99782.06 | 15122240.2 |
| 12 | 99780.14 | 15055721.2 |
| 11 | 99778.21 | 14989783.6 |
| 10 | 99776.27 | 14924417.0 |
| 9 | 99774.32 | 14859611.5 |
| 8 | 99772.36 | 14795357.1 |
| 7 | 99770.39 | 14731673.8 |
| 6 | 99768.42 | 14668520.2 |
| 5 | 99766.44 | 14605916.3 |
| 4 | 99764.45 | 14543833.2 |
| 3 | 99762.45 | 14482273.2 |
| 2 | 99760.44 | 14421229.7 |
| 1 | 99758.42 | 14360696.1 |
| 0 | 99756.40 | 14300666.3 |

| Minut. | 4. Grad. | | Minut. | 85. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 6975.65 | 6992.68 | 60 | 99756.40 | 1430066.63 |
| 1 | 7004.66 | 7021.91 | 59 | 99754.37 | 1424113.37 |
| 2 | 7033.68 | 7051.15 | 58 | 99752.33 | 1418209.24 |
| 3 | 7062.70 | 6080.38 | 57 | 99750.28 | 1412353.63 |
| 4 | 7091.71 | 7109.61 | 56 | 99748.22 | 1406545.93 |
| 5 | 7120.73 | 7138.85 | 55 | 99746.15 | 1400785.56 |
| 6 | 7149.74 | 7168.09 | 54 | 99744.07 | 1395071.94 |
| 7 | 7178.76 | 7197.33 | 53 | 99741.99 | 1389404.51 |
| 8 | 7207.77 | 7226.57 | 52 | 99739.90 | 1383783.89 |
| 9 | 7236.78 | 7255.81 | 51 | 99737.80 | 1378205.98 |
| 10 | 7265.80 | 7285.05 | 50 | 99735.69 | 1372673.79 |
| 11 | 7294.81 | 7314.30 | 49 | 99733.57 | 1367185.60 |
| 12 | 7323.82 | 7343.54 | 48 | 99731.44 | 1361740.89 |
| 13 | 7352.83 | 7372.79 | 47 | 99729.31 | 1356339.15 |
| 14 | 7381.84 | 7402.03 | 46 | 99727.17 | 1350979.86 |
| 15 | 7410.85 | 7431.28 | 45 | 99725.02 | 1345662.53 |
| 16 | 7439.86 | 7460.53 | 44 | 99722.86 | 1340386.67 |
| 17 | 7468.87 | 7489.79 | 43 | 99720.69 | 1335151.79 |
| 18 | 7497.87 | 7519.04 | 42 | 99718.51 | 1329957.41 |
| 19 | 7526.88 | 7548.29 | 41 | 99716.32 | 1324803.07 |
| 20 | 7555.89 | 7577.55 | 40 | 99714.13 | 1319688.30 |
| 21 | 7584.89 | 7606.80 | 39 | 99711.93 | 1314612.66 |
| 22 | 7613.90 | 7636.06 | 38 | 99709.72 | 1309575.68 |
| 23 | 7642.90 | 7665.32 | 37 | 99707.50 | 1304576.93 |
| 24 | 7671.90 | 7694.58 | 36 | 99705.27 | 1299615.98 |
| 25 | 7700.91 | 772384. | 35 | 99703.03 | 1294692.40 |
| 26 | 7729.91 | 7753.11 | 34 | 99700.79 | 1289805.79 |
| 27 | 7758.91 | 7782.37 | 33 | 99698.54 | 1284955.66 |
| 28 | 7787.91 | 7811.64 | 32 | 99696.28 | 1280141.68 |
| 29 | 7816.91 | 7840.90 | 31 | 99694.01 | 1275363.41 |
| 30 | 7845.91 | 7870.17 | 30 | 99691.73 | 1270620.47 |

| Minut. | 4. Grad. | | Minut. | 85. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 7845.91 | 7870.17 | 30 | 99691.73 | 1270620.47 |
| 31 | 7874.91 | 7899.44 | 29 | 99689.44 | 1265912.46 |
| 32 | 7903.91 | 7928.71 | 28 | 99687.15 | 1261239.00 |
| 33 | 7932.90 | 7957.98 | 27 | 99684.85 | 1256599.71 |
| 34 | 7961.90 | 7987.26 | 26 | 99682.54 | 1251994.20 |
| 35 | 7990.80 | 8016.53 | 25 | 99680.22 | 1247422.12 |
| 36 | 8019.89 | 8045.81 | 24 | 99677.89 | 1242883.10 |
| 37 | 8048.89 | 8075.09 | 23 | 99675.55 | 1238376.79 |
| 38 | 8077.88 | 8104.37 | 22 | 99673.20 | 1233902.82 |
| 39 | 8106.87 | 8133.65 | 21 | 99670.85 | 1229460.85 |
| 40 | 8135.87 | 8162.93 | 20 | 99668.49 | 1225050.55 |
| 41 | 8164.86 | 8192.21 | 19 | 99666.12 | 1220671.56 |
| 42 | 8193.85 | 8221.50 | 18 | 99663.74 | 1216323.56 |
| 43 | 8222.84 | 8250.78 | 17 | 99661.35 | 1212006.22 |
| 44 | 8251.83 | 8280.07 | 16 | 99658.95 | 1207719.22 |
| 45 | 8280.82 | 8309.36 | 15 | 99656.55 | 1203462.23 |
| 46 | 8309.81 | 8338.65 | 14 | 99654.14 | 1199234.95 |
| 47 | 8338.80 | 8367.94 | 13 | 99651.72 | 1195037.05 |
| 48 | 8367.78 | 8397.23 | 12 | 99649.29 | 1190868.24 |
| 49 | 8396.77 | 8426.53 | 11 | 99646.85 | 1186728.21 |
| 50 | 8425.76 | 8455.83 | 10 | 99644.40 | 1182616.67 |
| 51 | 8454.74 | 8485.12 | 9 | 99641.94 | 1178533.31 |
| 52 | 8483.73 | 8514.42 | 8 | 99639.48 | 1174477.86 |
| 53 | 8512.71 | 8543.72 | 7 | 99637.01 | 1170450.03 |
| 54 | 8541.69 | 8573.02 | 6 | 99634.53 | 1166449.53 |
| 55 | 8570.67 | 8602.33 | 5 | 99632.04 | 1162476.08 |
| 56 | 8599.66 | 8631.63 | 4 | 99629.54 | 1158529.42 |
| 57 | 8628.64 | 8660.94 | 3 | 99627.03 | 1154609.27 |
| 58 | 8657.62 | 8690.25 | 2 | 99624.52 | 1150715.38 |
| 59 | 8686.60 | 8719.56 | 1 | 99622.00 | 1146847.43 |
| 60 | 8715.57 | 8748.87 | 0 | 99619.47 | 1143005.23 |

| Minut. | 5. Grad. | | Minut. | 84. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 8715.57 | 8714.87 | 60 | 99619.47 | 1143005.23 |
| 1 | 8744.55 | 8778.18 | 59 | 99616.93 | 1139188.49 |
| 2 | 8773.53 | 8807.49 | 58 | 99614.38 | 1135396.96 |
| 3 | 8802.51 | 8836.81 | 57 | 99611.82 | 1131630.40 |
| 4 | 8831.48 | 8866.12 | 56 | 99609.26 | 1127888.55 |
| 5 | 8860.46 | 8895.44 | 55 | 99606.69 | 1124171.17 |
| 6 | 8889.43 | 8924.76 | 54 | 99604.11 | 1120478.03 |
| 7 | 8918.40 | 8954.08 | 53 | 99601.52 | 1116808.88 |
| 8 | 8947.38 | 8983.41 | 52 | 99598.92 | 1113163.56 |
| 9 | 8976.35 | 9012.73 | 51 | 99596.31 | 1109541.64 |
| 10 | 9005.32 | 9042.06 | 50 | 99593.69 | 1105943.10 |
| 11 | 9034.29 | 9071.38 | 49 | 99591.07 | 1102367.63 |
| 12 | 9063.26 | 9100.71 | 48 | 99588.44 | 1098815.01 |
| 13 | 9092.23 | 9130.04 | 47 | 99585.80 | 1095285.04 |
| 14 | 9121.19 | 9159.38 | 46 | 99583.15 | 1091777.49 |
| 15 | 9150.16 | 9188.71 | 45 | 99580.49 | 1088292.14 |
| 16 | 9179.13 | 9218.04 | 44 | 99577.82 | 1084828.80 |
| 17 | 9208.09 | 9247.38 | 43 | 99575.15 | 1081387.24 |
| 18 | 9237.06 | 9276.72 | 42 | 99572.47 | 1077967.27 |
| 19 | 9266.02 | 9306.06 | 41 | 99569.78 | 1074568.68 |
| 20 | 9294.99 | 9335.40 | 40 | 99567.08 | 1071191.26 |
| 21 | 9323.95 | 9364.74 | 39 | 99564.37 | 1067834.84 |
| 22 | 9352.91 | 9394.09 | 38 | 99561.65 | 1064499.19 |
| 23 | 9381.87 | 9423.44 | 37 | 99558.92 | 1061184.14 |
| 24 | 9410.83 | 9452.78 | 36 | 99556.19 | 1057889.50 |
| 25 | 9439.79 | 9482.13 | 35 | 99553.45 | 1054615.07 |
| 26 | 9468.75 | 9511.48 | 34 | 99550.70 | 1051360.67 |
| 27 | 9497.71 | 9540.84 | 33 | 99547.94 | 1048126.11 |
| 28 | 9526.66 | 9570.19 | 32 | 99545.17 | 1044911.22 |
| 29 | 9555.62 | 9599.55 | 31 | 99542.40 | 1041715.81 |
| 30 | 9584.58 | 9628.90 | 30 | 99539.62 | 1038539.71 |

| Minut. | 5. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 9584.58 | 9628.90 |
| 31 | 9613.53 | 9658.26 |
| 32 | 9642.48 | 9687.63 |
| 33 | 9671.44 | 9716.99 |
| 34 | 9700.39 | 9746.35 |
| 35 | 9729.34 | 9775.72 |
| 36 | 9758.29 | 9805.09 |
| 37 | 9787.24 | 9834.46 |
| 38 | 9816.19 | 9863.83 |
| 39 | 9845.14 | 9893.20 |
| 40 | 9874.08 | 9922.57 |
| 41 | 9903.03 | 9951.95 |
| 42 | 9931.97 | 9981.33 |
| 43 | 9960.92 | 10010.71 |
| 44 | 9989.86 | 10040.09 |
| 45 | 10018.81 | 10069.47 |
| 46 | 10047.75 | 10098.85 |
| 47 | 10076.69 | 10128.24 |
| 48 | 10105.63 | 10157.63 |
| 49 | 10134.57 | 10187.02 |
| 50 | 10163.51 | 10216.41 |
| 51 | 10192.45 | 10245.80 |
| 52 | 10221.38 | 10275.20 |
| 53 | 10250.32 | 10304.60 |
| 54 | 10279.25 | 10334.00 |
| 55 | 10308.19 | 10363.40 |
| 56 | 10337.12 | 10392.80 |
| 57 | 10366.05 | 10422.20 |
| 58 | 10394.99 | 10451.60 |
| 59 | 10423.92 | 10481.01 |
| 60 | 10452.85 | 10510.42 |

| Minut. | 84. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 99539.62 | 10385 39.71 |
| 29 | 99536.83 | 10363 82.74 |
| 28 | 99534.03 | 10322 44.73 |
| 27 | 99531.22 | 10291 25.51 |
| 26 | 99528.40 | 10260 24.90 |
| 25 | 99525.57 | 10229 42.76 |
| 24 | 99522.74 | 10198 78.90 |
| 23 | 99519.90 | 10168 33.16 |
| 22 | 99517.05 | 10138 05.39 |
| 21 | 99514.19 | 10107 95.42 |
| 20 | 99511.32 | 10078 03.11 |
| 19 | 99508.44 | 10048 28.28 |
| 18 | 99505.55 | 10018 70.80 |
| 17 | 99502.66 | 9989 30.50 |
| 16 | 99499.76 | 9960 07.24 |
| 15 | 99496.85 | 9931 00.88 |
| 14 | 99493.93 | 9902 11.25 |
| 13 | 99491.00 | 9873 38.23 |
| 12 | 99488.06 | 9844 81.66 |
| 11 | 99485.12 | 9816 41.40 |
| 10 | 99482.17 | 9788 17.32 |
| 9 | 99479.21 | 9760 09.27 |
| 8 | 99476.24 | 9732 17.13 |
| 7 | 99473.26 | 9704 40.75 |
| 6 | 99470.27 | 9676 80.00 |
| 5 | 99467.28 | 9649 34.75 |
| 4 | 99464.28 | 9622 04.86 |
| 3 | 99461.27 | 9594 90.22 |
| 2 | 99458.25 | 9567 90.68 |
| 1 | 99455.22 | 9541 06.13 |
| 0 | 99452.18 | 9514 36.45 |

| Minut. | 6. Grad. | | Minut. | 83. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 10452.85 | 10510.42 | 60 | 99452.18 | 9514136.45 |
| 1 | 10481.78 | 10539.83 | 59 | 99449.14 | 948781.49 |
| 2 | 10510.70 | 10569.24 | 58 | 99446.09 | 946141.16 |
| 3 | 10539.63 | 10598.66 | 57 | 99443.03 | 943515.31 |
| 4 | 10568.56 | 10628.08 | 56 | 99439.96 | 940903.84 |
| 5 | 10597.48 | 10657.50 | 55 | 99436.88 | 938306.63 |
| 6 | 10626.41 | 10686.92 | 54 | 99433.79 | 935723.55 |
| 7 | 10655.33 | 10716.34 | 53 | 99430.69 | 933154.50 |
| 8 | 10684.25 | 10745.76 | 52 | 99427.59 | 930599.36 |
| 9 | 10713.18 | 10775.19 | 51 | 99424.48 | 928058.02 |
| 10 | 10742.10 | 10804.62 | 50 | 99421.36 | 925530.35 |
| 11 | 10771.02 | 10834.05 | 49 | 99418.23 | 923016.27 |
| 12 | 10799.94 | 10863.48 | 48 | 99415.09 | 920515.64 |
| 13 | 10828.85 | 10892.91 | 47 | 99411.94 | 918028.38 |
| 14 | 10857.77 | 10922.34 | 46 | 99408.79 | 915554.36 |
| 15 | 10886.69 | 10951.78 | 45 | 99405.63 | 913093.48 |
| 16 | 10915.60 | 10981.22 | 44 | 99402.46 | 910645.84 |
| 17 | 10944.52 | 11010.66 | 43 | 99399.28 | 908210.74 |
| 18 | 10973.43 | 11040.10 | 42 | 99396.09 | 905788.67 |
| 19 | 11002.34 | 11069.54 | 41 | 99392.89 | 903379.35 |
| 20 | 11031.26 | 11098.99 | 40 | 99389.69 | 900982.61 |
| 21 | 11060.17 | 11128.44 | 39 | 99386.48 | 898598.43 |
| 22 | 11089.08 | 11157.89 | 38 | 99383.26 | 896226.68 |
| 23 | 11117.99 | 11187.34 | 37 | 99380.03 | 893867.26 |
| 24 | 11146.89 | 11216.79 | 36 | 99376.79 | 891520.08 |
| 25 | 11175.80 | 11246.25 | 35 | 99373.54 | 889185.05 |
| 26 | 11204.71 | 11275.71 | 34 | 99370.28 | 886862.06 |
| 27 | 11233.61 | 11305.17 | 33 | 99367.02 | 884551.03 |
| 28 | 11262.52 | 11334.63 | 32 | 99363.75 | 8822251.86 |
| 29 | 11291.42 | 11364.09 | 31 | 99360.47 | 879964.46 |
| 30 | 11320.32 | 11393.56 | 30 | 99357.18 | 877688.74 |

| Minut. | 6. Grad. | | Minut. | 83. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 11320.32 | 11393.56 | 30 | 99357.18 | 877688.74 |
| 31 | 11349.22 | 11423.03 | 29 | 99353.88 | 875424.61 |
| 32 | 11378.12 | 11452.50 | 28 | 99350.58 | 873171.98 |
| 33 | 11407.02 | 11481.97 | 27 | 99347.27 | 870930.77 |
| 34 | 11435.92 | 11511.44 | 26 | 99343.95 | 868700.88 |
| 35 | 11464.82 | 11540.91 | 25 | 99340.62 | 866482.23 |
| 36 | 11493.71 | 11570.39 | 24 | 99337.28 | 864274.75 |
| 37 | 11522.61 | 11599.87 | 23 | 99333.93 | 862078.33 |
| 38 | 11551.51 | 11629.35 | 22 | 99330.57 | 859892.90 |
| 39 | 11580.40 | 11658.83 | 21 | 99327.20 | 857718.38 |
| 40 | 11609.29 | 11688.31 | 20 | 99323.83 | 855554.68 |
| 41 | 11638.18 | 11717.80 | 19 | 99320.45 | 853401.72 |
| 42 | 11667.07 | 11747.29 | 18 | 99317.06 | 851259.43 |
| 43 | 11695.96 | 11776.78 | 17 | 99313.66 | 849127.72 |
| 44 | 11724.85 | 11806.28 | 16 | 99310.25 | 847006.51 |
| 45 | 11753.74 | 11835.78 | 15 | 99306.84 | 844895.73 |
| 46 | 11782.63 | 11865.28 | 14 | 99303.42 | 842795.31 |
| 47 | 11811.51 | 11894.78 | 13 | 99299.99 | 840705.15 |
| 48 | 11840.40 | 11924.28 | 12 | 99296.55 | 838625.19 |
| 49 | 11869.28 | 11953.78 | 11 | 99293.10 | 836555.36 |
| 50 | 11898.16 | 11983.28 | 10 | 99289.64 | 834495.57 |
| 51 | 11927.04 | 12012.79 | 9 | 99286.17 | 832445.77 |
| 52 | 11955.93 | 12042.30 | 8 | 99282.70 | 830405.86 |
| 53 | 11984.81 | 12071.81 | 7 | 99279.22 | 828375.79 |
| 54 | 12013.68 | 12101.32 | 6 | 99275.73 | 826355.47 |
| 55 | 12042.56 | 12130.84 | 5 | 99272.23 | 824344.85 |
| 56 | 12071.44 | 12160.36 | 4 | 99268.72 | 822343.84 |
| 57 | 12100.31 | 12189.88 | 3 | 99265.21 | 820352.39 |
| 58 | 12129.19 | 12219.40 | 2 | 99261.69 | 818370.41 |
| 59 | 12158.06 | 12248.93 | 1 | 99258.16 | 816397.86 |
| 60 | 12186.93 | 12278.46 | 0 | 99254.62 | 814434.64 |

| Minut. | 7. Grad. | | Minut. | 82. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 12186.93 | 12278.46 | 60 | 99254.62 | 814434.64 |
| 1 | 12215.81 | 12307.99 | 59 | 99251.07 | 812480.71 |
| 2 | 12244.68 | 12337.52 | 58 | 99247.51 | 810535.99 |
| 3 | 12273.55 | 12367.05 | 57 | 99243.94 | 808600.42 |
| 4 | 12302.41 | 12396.58 | 56 | 99240.36 | 806673.94 |
| 5 | 12331.28 | 12426.12 | 55 | 99236.78 | 804756.47 |
| 6 | 12360.15 | 12455.66 | 54 | 99233.19 | 802847.96 |
| 7 | 12389.01 | 12485.20 | 53 | 99229.59 | 800948.35 |
| 8 | 12417.88 | 12514.74 | 52 | 99225.98 | 799057.56 |
| 9 | 12446.74 | 12544.29 | 51 | 99222.36 | 797175.55 |
| 10 | 12475.60 | 12573.84 | 50 | 99218.74 | 795302.24 |
| 11 | 12504.46 | 12603.39 | 49 | 99215.11 | 793437.58 |
| 12 | 12533.32 | 12632.94 | 48 | 99211.47 | 791581.51 |
| 13 | 12562.18 | 12662.49 | 47 | 99207.82 | 789733.96 |
| 14 | 12591.04 | 12692.05 | 46 | 99204.16 | 787894.89 |
| 15 | 12619.90 | 12721.61 | 45 | 99200.49 | 786064.23 |
| 16 | 12648.75 | 12751.17 | 44 | 99196.81 | 784241.91 |
| 17 | 12677.61 | 12780.73 | 43 | 99193.13 | 782427.90 |
| 18 | 12706.46 | 12810.29 | 42 | 99189.44 | 780622.12 |
| 19 | 12735.31 | 12839.86 | 41 | 99185.74 | 778824.53 |
| 20 | 12764.16 | 12869.43 | 40 | 99182.03 | 777035.06 |
| 21 | 12793.01 | 12899.00 | 39 | 99178.31 | 775253.66 |
| 22 | 12821.86 | 12928.57 | 38 | 99174.59 | 773480.28 |
| 23 | 12850.71 | 12958.15 | 37 | 99170.86 | 771714.86 |
| 24 | 12879.56 | 12987.73 | 36 | 99167.12 | 769957.35 |
| 25 | 12908.41 | 13017.31 | 35 | 99163.37 | 768207.69 |
| 26 | 12937.25 | 13046.89 | 34 | 99159.61 | 766465.84 |
| 27 | 12966.09 | 13076.48 | 33 | 99155.84 | 764731.74 |
| 28 | 12994.94 | 13106.07 | 32 | 99152.06 | 763005.33 |
| 29 | 13023.78 | 13135.66 | 31 | 99148.28 | 761286.57 |
| 30 | 13052.62 | 13165.25 | 30 | 99144.49 | 759575.41 |

| Minut. | 7. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 13054.62 | 13165.25 |
| 31 | 13081.46 | 13194.84 |
| 32 | 13110.30 | 13224.44 |
| 33 | 13139.13 | 13254.04 |
| 34 | 13167.97 | 13283.64 |
| 35 | 13196.81 | 13313.24 |
| 36 | 13225.64 | 13342.85 |
| 37 | 13254.47 | 13372.46 |
| 38 | 13283.30 | 13402.07 |
| 39 | 13312.13 | 13431.68 |
| 40 | 13340.96 | 13461.29 |
| 41 | 13369.79 | 13490.91 |
| 42 | 13398.62 | 13520.53 |
| 43 | 13427.44 | 13550.15 |
| 44 | 13456.27 | 13579.77 |
| 45 | 13485.09 | 13609.40 |
| 46 | 13513.92 | 13639.03 |
| 47 | 13542.74 | 13668.66 |
| 48 | 13571.56 | 13698.29 |
| 49 | 13600.38 | 13727.93 |
| 50 | 13629.19 | 13757.57 |
| 51 | 13658.01 | 13787.21 |
| 52 | 13686.83 | 13816.85 |
| 53 | 13715.64 | 13846.50 |
| 54 | 13744.45 | 13876.15 |
| 55 | 13773.27 | 13905.80 |
| 56 | 13802.08 | 13935.45 |
| 57 | 13830.89 | 13965.10 |
| 58 | 13859.70 | 13994.76 |
| 59 | 13888.50 | 14024.42 |
| 60 | 13917.31 | 14054.08 |

| Minut. | 82. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 99144.49 | 759575.41 |
| 29 | 99140.69 | 757871.79 |
| 28 | 99136.88 | 756175.67 |
| 27 | 99133.06 | 754486.99 |
| 26 | 99129.23 | 752805.71 |
| 25 | 99125.40 | 751131.77 |
| 24 | 99121.55 | 749465.14 |
| 23 | 99117.70 | 747805.76 |
| 22 | 99113.84 | 746153.57 |
| 21 | 99109.98 | 744508.55 |
| 20 | 99106.10 | 742870.64 |
| 19 | 99102.21 | 741239.78 |
| 18 | 99098.32 | 739615.95 |
| 17 | 99094.42 | 737999.09 |
| 16 | 99090.51 | 736389.16 |
| 15 | 99086.59 | 734786.10 |
| 14 | 99082.66 | 733189.89 |
| 13 | 99078.73 | 731600.47 |
| 12 | 99074.78 | 730017.80 |
| 11 | 99070.83 | 728441.84 |
| 10 | 99066.87 | 726872.55 |
| 9 | 99062.90 | 725309.87 |
| 8 | 99058.93 | 723753.78 |
| 7 | 99054.94 | 722204.22 |
| 6 | 99050.95 | 720661.16 |
| 5 | 99046.94 | 719124.56 |
| 4 | 99042.93 | 717594.37 |
| 3 | 99038.91 | 716070.56 |
| 2 | 99034.89 | 714553.08 |
| 1 | 99030.85 | 713041.90 |
| 0 | 99026.81 | 711536.97 |

| Minut. | 8. Grad. Sinus. | Tang. |
|---|---|---|
| 0 | 13917.31 | 14054.08 |
| 1 | 13946.12 | 14083.74 |
| 2 | 13974.92 | 14113.41 |
| 3 | 14003.72 | 14143.08 |
| 4 | 14032.52 | 14172.75 |
| 5 | 14061.32 | 14202.43 |
| 6 | 14090.12 | 14232.11 |
| 7 | 14118.92 | 14261.79 |
| 8 | 14147.72 | 14291.47 |
| 9 | 14176.51 | 14321.15 |
| 10 | 14205.31 | 14350.84 |
| 11 | 14234.10 | 14380.53 |
| 12 | 14262.89 | 14410.22 |
| 13 | 14291.68 | 14439.91 |
| 14 | 14320.47 | 14469.61 |
| 15 | 14349.26 | 14499.31 |
| 16 | 14378.05 | 14529.01 |
| 17 | 14406.84 | 14558.71 |
| 18 | 14435.62 | 14588.42 |
| 19 | 14464.40 | 14618.13 |
| 20 | 14493.19 | 14647.84 |
| 21 | 14521.97 | 14677.55 |
| 22 | 14550.75 | 14707.27 |
| 23 | 14579.53 | 14736.99 |
| 24 | 14608.30 | 14766.71 |
| 25 | 14637.08 | 14796.44 |
| 26 | 14665.85 | 14826.17 |
| 27 | 14694.63 | 14855.90 |
| 28 | 14723.40 | 14885.63 |
| 29 | 14752.17 | 14915.36 |
| 30 | 14780.94 | 14945.10 |

| Minut. | 81. Grad. Sinus. | Tang. |
|---|---|---|
| 60 | 99026.81 | 711536.97 |
| 59 | 99022.75 | 710038.26 |
| 58 | 99018.69 | 708545.73 |
| 57 | 99014.62 | 707059.34 |
| 56 | 99010.55 | 705579.05 |
| 55 | 99006.46 | 704104.82 |
| 54 | 99002.37 | 702636.62 |
| 53 | 98998.26 | 701174.41 |
| 52 | 98994.16 | 699718.06 |
| 51 | 98990.03 | 698267.81 |
| 50 | 98985.90 | 696823.35 |
| 49 | 98981.77 | 695384.73 |
| 48 | 98977.62 | 693951.92 |
| 47 | 98973.47 | 692524.89 |
| 46 | 98969.31 | 691103.59 |
| 45 | 98965.14 | 689687.99 |
| 44 | 98960.96 | 688278.07 |
| 43 | 98956.77 | 686873.78 |
| 42 | 98952.57 | 685475.08 |
| 41 | 98948.37 | 684081.96 |
| 40 | 98944.16 | 682694.37 |
| 39 | 98939.94 | 681312.27 |
| 38 | 98935.71 | 679935.65 |
| 37 | 98931.47 | 678564.46 |
| 36 | 98927.23 | 677198.67 |
| 35 | 98922.98 | 675838.26 |
| 34 | 98918.72 | 674483.18 |
| 33 | 98914.45 | 673133.41 |
| 32 | 98910.17 | 671788.91 |
| 31 | 98905.88 | 670449.66 |
| 30 | 98901.58 | 669115.62 |

| Minut. | 8. Grad. Sinus. | Tang. | Minut. | 81. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 14780.94 | 14945.10 | 30 | 98901.58 | 669115.62 |
| 31 | 14809.71 | 14974.84 | 29 | 98897.28 | 667786.77 |
| 32 | 14838.48 | 15004.58 | 28 | 98892.97 | 666463.07 |
| 33 | 14867.24 | 15034.33 | 27 | 98888.65 | 665144.49 |
| 34 | 14896.01 | 15064.08 | 26 | 98884.32 | 663831.00 |
| 35 | 14924.77 | 15093.83 | 25 | 98879.98 | 662522.58 |
| 36 | 14953.53 | 15123.58 | 24 | 98875.64 | 661219.19 |
| 37 | 14982.30 | 15153.33 | 23 | 98871.28 | 659920.80 |
| 38 | 15011.06 | 15183.09 | 22 | 98866.92 | 658627.39 |
| 39 | 15039.81 | 15212.85 | 21 | 98862.55 | 657338.92 |
| 30 | 15068.57 | 15242.62 | 20 | 98858.17 | 656055.38 |
| 41 | 15097.33 | 15272.38 | 19 | 98853.78 | 654776.72 |
| 42 | 15126.08 | 15302.15 | 18 | 98849.38 | 653502.93 |
| 43 | 15154.84 | 15331.92 | 17 | 98844.98 | 652233.96 |
| 44 | 15183.59 | 15361.89 | 16 | 98840.57 | 650969.81 |
| 45 | 15212.34 | 15391.47 | 15 | 98836.15 | 649710.43 |
| 46 | 15241.09 | 15421.25 | 14 | 98831.72 | 648455.81 |
| 47 | 15269.84 | 15451.03 | 13 | 98827.28 | 647205.91 |
| 48 | 15298.58 | 15480.82 | 12 | 98822.83 | 645960.70 |
| 49 | 15327.33 | 15510.61 | 11 | 98818.38 | 644720.17 |
| 50 | 15356.07 | 15540.40 | 10 | 98813.92 | 643484.28 |
| 51 | 15384.82 | 15570.19 | 9 | 98809.45 | 642253.01 |
| 52 | 15413.56 | 15599.98 | 8 | 98804.97 | 641026.33 |
| 53 | 15442.30 | 15629.78 | 7 | 98800.48 | 639804.22 |
| 54 | 15471.04 | 15659.58 | 6 | 98795.98 | 638586.65 |
| 55 | 15499.78 | 15689.39 | 5 | 98791.48 | 637373.59 |
| 56 | 15528.51 | 15719.19 | 4 | 98786.97 | 636165.02 |
| 57 | 15557.25 | 15749.00 | 3 | 98782.45 | 634960.92 |
| 58 | 15585.98 | 15778.81 | 2 | 98777.92 | 633761.26 |
| 59 | 15614.72 | 15808.63 | 1 | 98773.38 | 632566.01 |
| 60 | 15643.45 | 15838.44 | 0 | 98768.83 | 631375.15 |

| Minut. | 9. Grad. Sinus. | Tang. |
|---|---|---|
| 0 | 15643.45 | 15838.44 |
| 1 | 15672.18 | 15868.26 |
| 2 | 15700.91 | 15898.08 |
| 3 | 15729.63 | 15927.91 |
| 4 | 15758.36 | 15957.74 |
| 5 | 15787.08 | 15987.57 |
| 6 | 15815.81 | 16017.40 |
| 7 | 15844.53 | 16047.24 |
| 8 | 15873.25 | 16077.08 |
| 9 | 15901.97 | 16106.92 |
| 10 | 15930.69 | 16136.77 |
| 11 | 15959.40 | 16166.62 |
| 12 | 15988.12 | 16196.47 |
| 13 | 16016.83 | 16226.32 |
| 14 | 16045.55 | 16256.17 |
| 15 | 16074.26 | 16286.03 |
| 16 | 16102.97 | 16315.89 |
| 17 | 16131.67 | 16345.76 |
| 18 | 16160.38 | 16375.63 |
| 19 | 16189.09 | 16405.50 |
| 20 | 16217.79 | 16435.37 |
| 21 | 16246.50 | 16465.25 |
| 22 | 16275.20 | 16495.13 |
| 23 | 16303.90 | 16525.01 |
| 24 | 16332.60 | 16554.89 |
| 25 | 16361.29 | 16584.78 |
| 26 | 16389.99 | 16614.67 |
| 27 | 16418.68 | 16644.56 |
| 28 | 16447.38 | 16674.46 |
| 29 | 16476.07 | 16704.36 |
| 30 | 16504.76 | 16734.26 |

| Minut. | 80. Grad. Sinus. | Tang. |
|---|---|---|
| 60 | 98768.83 | 631375.15 |
| 59 | 98764.28 | 630188.66 |
| 58 | 98759.72 | 629006.51 |
| 57 | 98755.15 | 627828.68 |
| 56 | 98750.57 | 626655.14 |
| 55 | 98745.98 | 625485.88 |
| 54 | 98741.38 | 624320.86 |
| 53 | 98736.77 | 623160.07 |
| 52 | 98732.16 | 622003.47 |
| 51 | 98727.54 | 620851.06 |
| 50 | 98722.91 | 619702.79 |
| 49 | 98718.27 | 618558.67 |
| 48 | 98713.62 | 617418.65 |
| 47 | 98708.97 | 616282.72 |
| 46 | 98704.31 | 615150.85 |
| 45 | 98699.64 | 614023.03 |
| 44 | 98694.96 | 612899.23 |
| 43 | 98690.27 | 611779.43 |
| 42 | 98685.57 | 610663.60 |
| 41 | 98680.86 | 609551.74 |
| 40 | 98676.15 | 608443.81 |
| 39 | 98671.43 | 607339.79 |
| 38 | 98666.70 | 606239.67 |
| 37 | 98661.96 | 605143.43 |
| 36 | 98657.21 | 604051.03 |
| 35 | 98652.46 | 602962.47 |
| 34 | 98647.70 | 601877.72 |
| 33 | 98642.93 | 600796.76 |
| 32 | 98638.15 | 599719.57 |
| 31 | 98633.36 | 598646.14 |
| 30 | 98628.56 | 597576.44 |

| Minut. | 9. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 16504.76 | 16734.26 |
| 31 | 16533.45 | 16764.16 |
| 32 | 16562.14 | 16794.07 |
| 33 | 16590.82 | 16823.98 |
| 34 | 16619.51 | 16853.89 |
| 35 | 16648.19 | 16883.81 |
| 36 | 16676.87 | 16913.73 |
| 37 | 16705.55 | 16943.65 |
| 38 | 16734.23 | 16973.58 |
| 39 | 16762.91 | 17003.51 |
| 40 | 16791.59 | 17033.44 |
| 41 | 16820.26 | 17063.37 |
| 42 | 16848.94 | 17093.31 |
| 43 | 16877.61 | 17123.25 |
| 44 | 16906.28 | 17153.19 |
| 45 | 16934.95 | 17183.14 |
| 46 | 16963.62 | 17213.09 |
| 47 | 16992.28 | 17243.04 |
| 48 | 17020.95 | 17273.00 |
| 49 | 17049.61 | 17302.96 |
| 50 | 17078.28 | 17332.92 |
| 51 | 17106.94 | 17362.88 |
| 52 | 17135.60 | 17392.85 |
| 53 | 17164.25 | 17422.82 |
| 54 | 17192.91 | 17452.79 |
| 55 | 17221.56 | 17482.77 |
| 56 | 17250.22 | 17512.75 |
| 57 | 17278.87 | 17542.73 |
| 58 | 17307.52 | 17572.72 |
| 59 | 17336.17 | 17602.71 |
| 60 | 17364.82 | 17632.70 |

| Minut. | 80. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 98628.56 | 597576.44 |
| 29 | 98623.75 | 596510.45 |
| 28 | 98618.94 | 595448.15 |
| 27 | 98614.12 | 594389.52 |
| 26 | 98609.29 | 593334.55 |
| 25 | 98604.45 | 592283.22 |
| 24 | 98599.60 | 591235.50 |
| 23 | 98594.74 | 590191.38 |
| 22 | 98589.88 | 589150.84 |
| 21 | 98585.01 | 588113.86 |
| 20 | 98580.13 | 587080.42 |
| 19 | 98575.24 | 586050.51 |
| 18 | 98570.34 | 585024.10 |
| 17 | 98565.44 | 584001.17 |
| 16 | 98560.53 | 582981.72 |
| 15 | 98555.61 | 581965.72 |
| 14 | 99550.68 | 580953.15 |
| 13 | 98545.74 | 579944.00 |
| 12 | 98540.79 | 578938.25 |
| 11 | 98535.83 | 577935.88 |
| 10 | 98530.87 | 576936.88 |
| 9 | 98525.90 | 575941.22 |
| 8 | 98520.92 | 574948.89 |
| 7 | 98515.93 | 573959.88 |
| 6 | 98510.93 | 572974.16 |
| 5 | 98505.92 | 571991.73 |
| 4 | 98500.91 | 571012.56 |
| 3 | 98495.89 | 570036.63 |
| 2 | 98490.86 | 569063.94 |
| 1 | 98485.82 | 568094.46 |
| 0 | 98480.77 | 567128.18 |

| Minut. | 9. Grad. | | Minut. | 80. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 15643.45 | 15838.44 | 60 | 98768.83 | 631375.15 |
| 1 | 15672.18 | 15868.26 | 59 | 98764.28 | 630188.66 |
| 2 | 15700.91 | 15898.08 | 58 | 98759.72 | 629006.51 |
| 3 | 15729.63 | 15927.91 | 57 | 98755.15 | 627828.68 |
| 4 | 15758.36 | 15957.74 | 56 | 98750.57 | 626655.14 |
| 5 | 15787.08 | 15987.57 | 55 | 98745.98 | 625485.88 |
| 6 | 15815.81 | 16017.40 | 54 | 98741.38 | 624320.86 |
| 7 | 15844.53 | 16047.24 | 53 | 98736.77 | 623160.07 |
| 8 | 15873.25 | 16077.08 | 52 | 98732.16 | 622003.47 |
| 9 | 15901.97 | 16106.92 | 51 | 98727.54 | 620851.06 |
| 10 | 15930.69 | 16136.77 | 50 | 98722.91 | 619702.79 |
| 11 | 15959.40 | 16166.62 | 49 | 98718.27 | 618558.67 |
| 12 | 15988.12 | 16196.47 | 48 | 98713.62 | 617418.65 |
| 13 | 16016.83 | 16226.32 | 47 | 98708.97 | 616282.72 |
| 14 | 16045.55 | 16256.17 | 46 | 98704.31 | 615150.85 |
| 15 | 16074.26 | 16286.03 | 45 | 98699.64 | 614023.03 |
| 16 | 16102.97 | 16315.89 | 44 | 98694.96 | 612899.23 |
| 17 | 16131.67 | 16345.76 | 43 | 98690.27 | 611779.43 |
| 18 | 16160.38 | 16375.63 | 42 | 98685.57 | 610663.60 |
| 19 | 16189.09 | 16405.50 | 41 | 98680.86 | 609551.74 |
| 20 | 16217.79 | 16435.37 | 40 | 98676.15 | 608443.81 |
| 21 | 16246.50 | 16465.25 | 39 | 98671.43 | 607339.79 |
| 22 | 16275.20 | 16495.13 | 38 | 98666.70 | 606239.67 |
| 23 | 16303.90 | 16525.01 | 37 | 98661.96 | 605143.43 |
| 24 | 16332.60 | 16554.89 | 36 | 98657.21 | 604051.03 |
| 25 | 16361.29 | 16584.78 | 35 | 98652.46 | 602962.47 |
| 26 | 16389.99 | 16614.67 | 34 | 98647.70 | 601877.72 |
| 27 | 16418.68 | 16644.56 | 33 | 98642.93 | 600796.76 |
| 28 | 16447.38 | 16674.46 | 32 | 98638.15 | 599719.57 |
| 29 | 16476.07 | 16704.36 | 31 | 98633.36 | 598646.14 |
| 30 | 16504.76 | 16734.26 | 30 | 98628.56 | 597576.44 |

| Minut. | 9. Grad. Sinus. | Tang. | Minut. | 80. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 16504.76 | 16734.26 | 30 | 98628.56 | 597576.44 |
| 31 | 16533.45 | 16764.16 | 29 | 98623.75 | 596510.45 |
| 32 | 16562.14 | 16794.07 | 28 | 98618.94 | 595448.15 |
| 33 | 16590.82 | 16823.98 | 27 | 98614.12 | 594389.52 |
| 34 | 16619.51 | 16853.89 | 26 | 98609.29 | 593334.55 |
| 35 | 16648.19 | 16883.81 | 25 | 98604.45 | 592283.22 |
| 36 | 16676.87 | 16913.73 | 24 | 98599.60 | 591235.50 |
| 37 | 16705.55 | 16943.65 | 23 | 98594.74 | 590191.38 |
| 38 | 16734.23 | 16973.58 | 22 | 98589.88 | 589150.84 |
| 39 | 16762.91 | 17003.51 | 21 | 98585.01 | 588113.86 |
| 40 | 16791.59 | 17033.44 | 20 | 98580.13 | 587080.42 |
| 41 | 16820.26 | 17063.37 | 19 | 98575.24 | 586050.51 |
| 42 | 16848.94 | 17093.31 | 18 | 98570.34 | 585024.10 |
| 43 | 16877.61 | 17123.25 | 17 | 98565.44 | 584001.17 |
| 44 | 16906.28 | 17153.19 | 16 | 98560.53 | 582981.72 |
| 45 | 16934.95 | 17183.14 | 15 | 98555.61 | 581965.72 |
| 46 | 16963.62 | 17213.09 | 14 | 99550.68 | 580953.15 |
| 47 | 16992.28 | 17243.04 | 13 | 98545.74 | 579944.00 |
| 48 | 17020.95 | 17273.00 | 12 | 98540.79 | 578938.25 |
| 49 | 17049.61 | 17302.96 | 11 | 98535.83 | 577935.88 |
| 50 | 17078.28 | 17332.92 | 10 | 98530.87 | 576936.88 |
| 51 | 17106.94 | 17362.88 | 9 | 98525.90 | 575941.22 |
| 52 | 17135.60 | 17392.85 | 8 | 98520.92 | 574948.89 |
| 53 | 17164.25 | 17422.82 | 7 | 98515.93 | 573959.88 |
| 54 | 17192.91 | 17452.79 | 6 | 98510.93 | 572974.16 |
| 55 | 17221.56 | 17482.77 | 5 | 98505.92 | 571991.73 |
| 56 | 17250.22 | 17512.75 | 4 | 98500.91 | 571012.56 |
| 57 | 17278.87 | 17542.73 | 3 | 98495.89 | 570036.63 |
| 58 | 17307.52 | 17572.72 | 2 | 98490.86 | 569063.94 |
| 59 | 17336.17 | 17602.71 | 1 | 98485.82 | 568094.46 |
| 60 | 17364.82 | 17632.70 | 0 | 98480.77 | 567128.18 |

| Minut. | 10. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 17364.82 | 17632.70 |
| 1 | 17393.46 | 17662.69 |
| 2 | 17422.11 | 17692.69 |
| 3 | 17450.75 | 17722.69 |
| 4 | 17479.39 | 17752.69 |
| 5 | 17508.03 | 17782.70 |
| 6 | 17536.67 | 17812.71 |
| 7 | 17565.31 | 17842.72 |
| 8 | 17593.95 | 17872.74 |
| 9 | 17622.58 | 17902.76 |
| 10 | 17651.21 | 17932.78 |
| 11 | 17679.84 | 17962.81 |
| 12 | 17708.47 | 17992.84 |
| 13 | 17737.10 | 18022.87 |
| 14 | 17765.73 | 18052.91 |
| 15 | 17794 35 | 18082.95 |
| 16 | 17822.98 | 18112.99 |
| 17 | 17851.60 | 18143.03 |
| 18 | 17880.22 | 18173.08 |
| 19 | 17908.84 | 18203.13 |
| 20 | 17937.46 | 18233.18 |
| 21 | 17966.07 | 18263.24 |
| 22 | 17994.69 | 18293.30 |
| 23 | 18023.30 | 18323.36 |
| 24 | 18051.91 | 18353.43 |
| 25 | 18080.52 | 18383.50 |
| 26 | 18109.13 | 18413.57 |
| 27 | 18137.74 | 18443.65 |
| 28 | 18166.35 | 18473.73 |
| 29 | 18194.95 | 18503.81 |
| 30 | 18223.55 | 18533.90 |

| Minut. | 72. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 98480.77 | 567128.18 |
| 59 | 98475.71 | 566165.09 |
| 58 | 98470.65 | 565205.16 |
| 57 | 98465.58 | 564248.38 |
| 56 | 98460.50 | 563294.74 |
| 55 | 98455.41 | 562344.21 |
| 54 | 98450.31 | 561396.80 |
| 53 | 98445.21 | 560452.47 |
| 52 | 98440.10 | 559511.21 |
| 51 | 98434.98 | 558573.02 |
| 50 | 98429.85 | 557637.86 |
| 49 | 98424.71 | 556705.74 |
| 48 | 98419.56 | 555776.63 |
| 47 | 68414.40 | 554850.52 |
| 46 | 98409.24 | 553927.40 |
| 45 | 98404.07 | 553007.24 |
| 44 | 98398.89 | 552090.05 |
| 43 | 98393.70 | 551175.79 |
| 42 | 98388.50 | 550264.46 |
| 41 | 98383.29 | 549356.04 |
| 40 | 98378.08 | 548450.52 |
| 39 | 98372.86 | 547547.88 |
| 38 | 98367.63 | 546648.12 |
| 37 | 98362.39 | 545751.21 |
| 36 | 98357.14 | 544857.15 |
| 35 | 98351.89 | 543965.92 |
| 34 | 98346.63 | 543077.50 |
| 33 | 98341.36 | 542191.88 |
| 32 | 98336.08 | 541309.06 |
| 31 | 98330.79 | 540429.01 |
| 30 | 98325.49 | 539551.72 |

| Minut. | 10. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 18223.55 | 18533.90 |
| 31 | 18252.15 | 18563.99 |
| 32 | 18280.75 | 18594.08 |
| 33 | 18309.35 | 18624.18 |
| 34 | 18337.95 | 18654.28 |
| 35 | 18366.54 | 18684.38 |
| 36 | 18395.13 | 18714.49 |
| 37 | 18423.73 | 18744.60 |
| 38 | 18452.32 | 18774.71 |
| 39 | 18480.91 | 18804.83 |
| 40 | 18509.49 | 18834.95 |
| 41 | 18538.08 | 18865.07 |
| 42 | 18566.66 | 18895.20 |
| 43 | 18595.24 | 18925.33 |
| 44 | 18623.82 | 18955.46 |
| 45 | 18652.40 | 18985.59 |
| 46 | 18680.98 | 19015.73 |
| 47 | 18709.56 | 19045.87 |
| 48 | 18738.13 | 19076.02 |
| 49 | 18766.70 | 19106.17 |
| 50 | 18795.27 | 19136.32 |
| 51 | 18823.84 | 19166.48 |
| 52 | 18852.41 | 19196.64 |
| 53 | 18880.98 | 19226.80 |
| 54 | 18909.54 | 19256.96 |
| 55 | 18938.11 | 19287.13 |
| 56 | 18966.67 | 19317.30 |
| 57 | 18995.23 | 19347.48 |
| 58 | 19023.79 | 19377.66 |
| 59 | 19052.34 | 19407.84 |
| 60 | 19080.90 | 19438.03 |

| Minut. | 79. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 98325.49 | 539551.72 |
| 29 | 98320.18 | 538677.18 |
| 28 | 98314.87 | 537805.38 |
| 27 | 98309.55 | 536936.30 |
| 26 | 98304.22 | 536069.93 |
| 25 | 98298.88 | 535206.26 |
| 24 | 98293.53 | 534345.27 |
| 23 | 98288.17 | 533486.96 |
| 22 | 98282.81 | 532631.31 |
| 21 | 98277.44 | 531778.30 |
| 20 | 98272.06 | 530927.93 |
| 19 | 98266.67 | 530080.18 |
| 18 | 98261.27 | 529235.01 |
| 17 | 98255.87 | 528392.51 |
| 16 | 98250.46 | 527552.55 |
| 15 | 98245.04 | 526715.17 |
| 14 | 98239.61 | 525880.35 |
| 13 | 98234.17 | 525048.09 |
| 12 | 98228.72 | 524218.36 |
| 11 | 98223.27 | 523391.16 |
| 10 | 98217.81 | 522566.47 |
| 9 | 98212.34 | 521744.28 |
| 8 | 98206.86 | 520924.59 |
| 7 | 98201.37 | 520107.38 |
| 6 | 98195.87 | 519292.64 |
| 5 | 98190.36 | 518480.35 |
| 4 | 98184.85 | 517670.51 |
| 3 | 98179.33 | 516863.11 |
| 2 | 98173.80 | 516058.13 |
| 1 | 98168.26 | 515255.57 |
| 0 | 98162.71 | 514455.40 |

| Minut. | 11. Grad. | | Minut. | 78. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 19080.90 | 19438.03 | 60 | 98162.71 | 514455.40 |
| 1 | 19109.45 | 19468.22 | 59 | 98157.16 | 513657.63 |
| 2 | 19138.00 | 19498.41 | 58 | 98151.60 | 512862.24 |
| 3 | 19166.55 | 19528.61 | 57 | 98146.03 | 512069.21 |
| 4 | 19195.10 | 19558.81 | 56 | 98140.45 | 511278.55 |
| 5 | 19223.65 | 19589.01 | 55 | 98134.86 | 510490.24 |
| 6 | 19252.20 | 19619.22 | 54 | 98129.26 | 509704.26 |
| 7 | 19280.74 | 19649.43 | 53 | 98123.66 | 508920.61 |
| 8 | 19309.28 | 19679.64 | 52 | 98118.05 | 508139.28 |
| 9 | 19337.82 | 19709.86 | 51 | 98112.43 | 507360.25 |
| 10 | 19366.36 | 19740.08 | 50 | 98106.80 | 506583.52 |
| 11 | 19394.90 | 19770.30 | 49 | 98101.16 | 505809.07 |
| 12 | 19423.44 | 19800.53 | 48 | 98095.51 | 505036.90 |
| 13 | 19451.97 | 19830.76 | 47 | 98089.86 | 504267.00 |
| 14 | 19480.50 | 19861.00 | 46 | 98084.20 | 503499.35 |
| 15 | 19509.03 | 19891.24 | 45 | 98078.53 | 502733.95 |
| 16 | 19537.56 | 19921.48 | 44 | 98072.85 | 501970.78 |
| 17 | 19566.09 | 19951.72 | 43 | 98067.16 | 501209.84 |
| 18 | 19594.61 | 19981.97 | 42 | 98061.46 | 500451.11 |
| 19 | 19623.14 | 20012.22 | 41 | 98055.76 | 499694.59 |
| 20 | 19651.66 | 20042.48 | 40 | 98050.05 | 498940.27 |
| 21 | 19680.18 | 20072.74 | 39 | 98044.33 | 498188.13 |
| 22 | 19708.70 | 20103.00 | 38 | 98038.60 | 497438.17 |
| 23 | 19737.22 | 20133.27 | 37 | 98032.86 | 496690.37 |
| 24 | 19765.73 | 20163.54 | 36 | 98027.11 | 495944.74 |
| 25 | 19794.25 | 20193.81 | 35 | 98021.36 | 495201.25 |
| 26 | 19822.76 | 20224.09 | 34 | 98015.60 | 494459.90 |
| 27 | 19851.27 | 20254.37 | 33 | 98009.83 | 493720.68 |
| 28 | 19879.78 | 20284.65 | 32 | 98004.05 | 492983.58 |
| 29 | 19908.29 | 20314.94 | 31 | 97998.26 | 492248.59 |
| 30 | 19936.79 | 20345.23 | 30 | 97992.47 | 491515.70 |

| Minut. | 11. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 19936.79 | 20345.23 |
| 31 | 19965.30 | 20375.52 |
| 32 | 19993.80 | 20405.82 |
| 33 | 20022.30 | 20436.12 |
| 34 | 20050.80 | 20466.43 |
| 35 | 20079.30 | 20496.74 |
| 36 | 20107.79 | 20527.05 |
| 37 | 20136.29 | 20557.37 |
| 38 | 20164.78 | 20587.69 |
| 39 | 20193.27 | 20618.01 |
| 40 | 20221.76 | 20648.34 |
| 41 | 20250.24 | 20678.67 |
| 42 | 20278.73 | 20709.00 |
| 43 | 20307.21 | 20739.34 |
| 44 | 20335.69 | 20769.68 |
| 45 | 20364.17 | 20800.03 |
| 46 | 20392.65 | 20830.38 |
| 47 | 20421.13 | 20860.73 |
| 48 | 20449.61 | 20891.09 |
| 49 | 20478.08 | 20921.45 |
| 50 | 20506.55 | 20951.81 |
| 51 | 20535.02 | 20982.18 |
| 52 | 20563.49 | 21012.55 |
| 53 | 20591.95 | 21042.93 |
| 54 | 20620.42 | 21073.31 |
| 55 | 20648.88 | 21103.69 |
| 56 | 20677.34 | 21134.07 |
| 57 | 20705.80 | 21164.46 |
| 58 | 20734.26 | 21194.85 |
| 59 | 20762.71 | 21225.26 |
| 60 | 20791.17 | 21255.65 |

| Minut. | 78. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 97992.47 | 491515.70 |
| 29 | 97986.67 | 490784.91 |
| 28 | 97980.86 | 490056.20 |
| 27 | 97975.04 | 489329.56 |
| 26 | 97969.21 | 488604.99 |
| 25 | 97963.37 | 487882.48 |
| 24 | 97957.52 | 487162.01 |
| 23 | 97951.67 | 486443.59 |
| 22 | 97945.81 | 485727.19 |
| 21 | 97939.94 | 485012.82 |
| 20 | 97934.06 | 484300.45 |
| 19 | 97928.17 | 483590.10 |
| 18 | 97922.28 | 482881.74 |
| 17 | 97916.38 | 482175.36 |
| 16 | 97910.47 | 481470.96 |
| 15 | 97904.55 | 480768.54 |
| 14 | 97898.62 | 480068.08 |
| 13 | 97892.68 | 479369.57 |
| 12 | 97886.74 | 478673.00 |
| 11 | 97880.79 | 477978.37 |
| 10 | 97874.83 | 477285.67 |
| 9 | 97868.86 | 476594.90 |
| 8 | 97862.88 | 475906.03 |
| 7 | 97856.89 | 475219.07 |
| 6 | 97850.90 | 474534.01 |
| 5 | 97844.90 | 473850.83 |
| 4 | 97838.89 | 473169.54 |
| 3 | 97832.87 | 472490.12 |
| 2 | 97826.84 | 471812.56 |
| 1 | 97820.80 | 471136.86 |
| 0 | 97814.76 | 470463.01 |

| 12. Grad. | | Minut. | 77. Grad. | |
|---|---|---|---|---|
| Sinus. | Tang. | | Sinus. | Tang. |
| 20791.17 | 21255.65 | 60 | 97814.76 | 470463.01 |
| 20819.62 | 21286.06 | 59 | 97808.71 | 469791.90 |
| 20848.07 | 21316.47 | 58 | 97802.65 | 469120.83 |
| 20876.52 | 21346.88 | 57 | 97796.58 | 468452.48 |
| 20904.97 | 21377.30 | 56 | 97790.50 | 467785.95 |
| 20933.41 | 21407.72 | 55 | 97784.41 | 467121.24 |
| 20961.86 | 21438.14 | 54 | 97778.32 | 466458.32 |
| 20990.30 | 21468.57 | 53 | 97772.22 | 465797.21 |
| 21018.74 | 21499.00 | 52 | 97766.11 | 465137.88 |
| 21047.18 | 21529.44 | 51 | 97759.99 | 464480.34 |
| 21075.61 | 21559.88 | 50 | 97753.86 | 463824.57 |
| 21104.05 | 21590.32 | 49 | 97747.73 | 463170.56 |
| 21132.48 | 21620.77 | 48 | 97741.59 | 462518.32 |
| 21160.91 | 21651.22 | 47 | 97735.44 | 461867.83 |
| 21189.34 | 21681.67 | 46 | 97729.28 | 461219.08 |
| 21217.77 | 21712.13 | 45 | 97723.11 | 460572.07 |
| 21246.19 | 21742.59 | 44 | 97716.93 | 459926.80 |
| 21274.62 | 21773.06 | 43 | 97710.75 | 459285.25 |
| 21303.04 | 21803.53 | 42 | 97704.56 | 458641.41 |
| 21331.46 | 21834.00 | 41 | 97698.36 | 458001.29 |
| 21359.88 | 21864.48 | 40 | 97692.15 | 457362.87 |
| 21388.29 | 21894.96 | 39 | 97685.93 | 456726.14 |
| 21416.71 | 21925.44 | 38 | 97679.70 | 456091.11 |
| 21445.12 | 21955.93 | 37 | 97673.47 | 455457.76 |
| 21473.53 | 21986.42 | 36 | 97667.23 | 454826.08 |
| 21501.94 | 22016.92 | 35 | 97660.98 | 454196.08 |
| 21530.35 | 22047.42 | 34 | 97654.72 | 453567.73 |
| 21558.76 | 22077.93 | 33 | 97648.45 | 452941.05 |
| 21587.16 | 22108.44 | 32 | 97642.17 | 452316.01 |
| 21615.56 | 22138.95 | 31 | 97635.89 | 451692.61 |
| 21643.96 | 22169.47 | 30 | 97629.60 | 451070.85 |

| Minut. | 12. Grad. | | Minut. | 77. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 21643.9( | 22169.47 | 30 | 97629.60 | 451070.85 |
| 31 | 21672.36 | 22199.99 | 29 | 97623.30 | 450450.72 |
| 32 | 21700.76 | 22230.51 | 28 | 97616.99 | 449832.21 |
| 33 | 21729.15 | 22261.04 | 27 | 97610.67 | 449215.32 |
| 34 | 21757.54 | 22291.57 | 26 | 97604.35 | 448600.04 |
| 35 | 21785.93 | 22322.11 | 25 | 97598.02 | 447986.36 |
| 36 | 21814.32 | 22352.65 | 24 | 97591.68 | 447374.28 |
| 37 | 21842.71 | 22383.19 | 23 | 97585.33 | 446763.79 |
| 38 | 21871.10 | 22413.74 | 22 | 97578.97 | 446154.89 |
| 39 | 21899.48 | 22444.29 | 21 | 97572.60 | 445547.56 |
| 40 | 21927.86 | 22474.85 | 20 | 97566.23 | 444941.81 |
| 41 | 21956.24 | 22505.41 | 19 | 97559.85 | 444337.62 |
| 42 | 21984.62 | 22535.97 | 18 | 97553.46 | 443734.99 |
| 43 | 22013.00 | 22566.54 | 17 | 97547.06 | 443133.92 |
| 44 | 22041.37 | 22597.11 | 16 | 97540.65 | 442534.39 |
| 45 | 22069.74 | 22627.69 | 15 | 97534.23 | 441936.41 |
| 46 | 22098.11 | 22658.27 | 14 | 97527.81 | 441339.96 |
| 47 | 22126.48 | 22688.85 | 13 | 97521.38 | 440745.04 |
| 48 | 22154.85 | 22719.44 | 12 | 97514.94 | 440151.64 |
| 49 | 22183.21 | 22750.03 | 11 | 97508.49 | 439559.76 |
| 50 | 22211.58 | 22780.63 | 10 | 97502.03 | 438969.40 |
| 51 | 22239.94 | 22811.23 | 9 | 97495.56 | 438380.54 |
| 52 | 22268.30 | 22841.83 | 8 | 97489.09 | 437793.17 |
| 53 | 22296.66 | 22872.44 | 7 | 97482.61 | 437207.31 |
| 54 | 22325.01 | 22903.05 | 6 | 97476.12 | 436622.93 |
| 55 | 22353.37 | 22933.67 | 5 | 97469.62 | 436040.03 |
| 56 | 22381.72 | 22964.29 | 4 | 97463.11 | 435458.61 |
| 57 | 22410.07 | 22994.92 | 3 | 97456.60 | 434878.66 |
| 58 | 22438.41 | 23025.55 | 2 | 97450.08 | 434300.18 |
| 59 | 22466.76 | 23056.18 | 1 | 97443.55 | 433723.16 |
| 60 | 22495.11 | 23086.82 | 0 | 97437.01 | 433147.59 |

| Minut. | 13. Grad. | | Minut. | 76. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 22495.11 | 23086.82 | 60 | 97437.01 | 433147.59 |
| 1 | 22523.45 | 23117.46 | 59 | 97430.46 | 432573.47 |
| 2 | 22551.79 | 23148.11 | 58 | 97423.90 | 432000.79 |
| 3 | 22580.13 | 23178.76 | 57 | 97417.34 | 431429.55 |
| 4 | 22608.46 | 23209.41 | 56 | 97410.77 | 430859.74 |
| 5 | 22636.80 | 23240.07 | 55 | 97404.19 | 430291.36 |
| 6 | 22665.13 | 23270.73 | 54 | 97397.60 | 429724.40 |
| 7 | 22693.46 | 23301.40 | 53 | 97391.00 | 429158.85 |
| 8 | 22721.79 | 23332.07 | 52 | 97384.39 | 428594.72 |
| 9 | 22750.12 | 23362.74 | 51 | 97377.78 | 428031.99 |
| 10 | 22778.44 | 23393.42 | 50 | 97371.16 | 427470.66 |
| 11 | 22806.77 | 23424.10 | 49 | 97364.53 | 426910.72 |
| 12 | 22835.09 | 23454.79 | 48 | 97357.89 | 426352.18 |
| 13 | 22863.41 | 23485.48 | 47 | 97351.24 | 425795.01 |
| 14 | 22891.72 | 23516.17 | 46 | 97344.58 | 425239.23 |
| 15 | 22920.04 | 23546.87 | 45 | 97337.92 | 424684.82 |
| 16 | 22948.35 | 23577.58 | 44 | 97331.25 | 424131.77 |
| 17 | 22976.66 | 23608.29 | 43 | 97324.57 | 423580.09 |
| 18 | 23004.97 | 23639.00 | 42 | 97317.88 | 423029.77 |
| 19 | 23033.28 | 23669.72 | 41 | 97311.18 | 422480.80 |
| 20 | 23061.59 | 23700.44 | 40 | 97304.48 | 421933.18 |
| 21 | 23089.89 | 23731.16 | 39 | 97297.77 | 421386.90 |
| 22 | 23118.19 | 23761.89 | 38 | 97291.05 | 420841.96 |
| 23 | 23146.49 | 23792.62 | 37 | 97284.32 | 420298.35 |
| 24 | 23174.79 | 23823.36 | 36 | 97277.58 | 419756.06 |
| 25 | 23203.09 | 23854.10 | 35 | 97270.84 | 419215.10 |
| 26 | 23231.38 | 23884.85 | 34 | 97264.09 | 418675.46 |
| 27 | 23259.67 | 23915.60 | 33 | 97257.33 | 418137.13 |
| 28 | 23287.96 | 23946.35 | 32 | 97250.56 | 417600.11 |
| 29 | 23316.25 | 23977.11 | 31 | 97243.78 | 417064.40 |
| 30 | 23344.54 | 24007.87 | 30 | 97236.99 | 416529.98 |

| Minut. | 13. Grad. | | Minut. | 76. Grad. | |
|---|---|---|---|---|---|
| | Sinús. | Tang. | | Sinus. | Tang. |
| 30 | 23344.54 | 24007.87 | 30 | 97236.99 | 416529.98 |
| 31 | 23372.82 | 24038.64 | 29 | 97230.19 | 415996.85 |
| 32 | 23401.10 | 24069.41 | 28 | 97223.39 | 415465.01 |
| 33 | 23429.38 | 24100.19 | 27 | 97216.58 | 414934.46 |
| 34 | 23457.66 | 24130.97 | 26 | 97209.76 | 414405.19 |
| 35 | 23485.94 | 24161.76 | 25 | 97202.93 | 413877.19 |
| 36 | 23514.21 | 24192.55 | 24 | 97196.09 | 413350.46 |
| 37 | 23542.48 | 24223.34 | 23 | 97189.25 | 412824.99 |
| 38 | 23570.75 | 24254.14 | 22 | 97182.40 | 412300.79 |
| 39 | 23599.02 | 24284.94 | 21 | 97175.54 | 411777.84 |
| 40 | 23627.29 | 24315.75 | 20 | 97168.67 | 411256.14 |
| 41 | 23655.55 | 24346.56 | 19 | 97161.79 | 410735.69 |
| 42 | 23683.81 | 24377.37 | 18 | 97154.91 | 410216.49 |
| 43 | 23712.07 | 24408.19 | 17 | 97148.02 | 409698.52 |
| 44 | 23740.33 | 24439.01 | 16 | 97141.12 | 409181.78 |
| 45 | 23768.59 | 24469.84 | 15 | 97134.21 | 408666.27 |
| 46 | 23796.84 | 24500.67 | 14 | 97127.29 | 408151.99 |
| 47 | 23825.10 | 24531.51 | 13 | 97120.36 | 407638.92 |
| 48 | 23853.35 | 24562.35 | 12 | 97113.43 | 407127.07 |
| 49 | 23881.59 | 24593.20 | 11 | 97106.49 | 406616.43 |
| 50 | 23909.84 | 24624.05 | 10 | 97099.54 | 406107.00 |
| 51 | 23938.08 | 24654.91 | 9 | 97092.58 | 405598.77 |
| 52 | 23966.33 | 24685.77 | 8 | 97085.61 | 405091.74 |
| 53 | 23994.57 | 24716.63 | 7 | 97078.63 | 404585.90 |
| 54 | 24022.80 | 24747.50 | 6 | 97071.65 | 404081.25 |
| 55 | 24051.04 | 24778.37 | 5 | 97064.66 | 403577.79 |
| 56 | 24079.27 | 24809.25 | 4 | 97057.66 | 403075.50 |
| 57 | 24107.51 | 24840.13 | 3 | 97050.65 | 402574.40 |
| 58 | 24135.74 | 24871.02 | 2 | 97043.63 | 402074.46 |
| 59 | 24163.96 | 24901.91 | 1 | 97036.60 | 401575.70 |
| 60 | 24192.19 | 24932.80 | 0 | 97029.57 | 401078.09 |

| Minut. | 14. Grad. Sinus. | Tang. |
|---|---|---|
| 0 | 24192.19 | 24932.80 |
| 1 | 24220.41 | 24963.70 |
| 2 | 24248.63 | 24994.60 |
| 3 | 24276.85 | 25025.51 |
| 4 | 24305.07 | 25056.42 |
| 5 | 24333.29 | 25087.34 |
| 6 | 24361.50 | 25118.26 |
| 7 | 24389.71 | 25149.19 |
| 8 | 24417.92 | 25180.12 |
| 9 | 24446.13 | 25211.06 |
| 10 | 24474.33 | 25242.00 |
| 11 | 24502.54 | 25272.94 |
| 12 | 24530.74 | 25303.89 |
| 13 | 24558.94 | 25334.84 |
| 14 | 24587.13 | 25365.80 |
| 15 | 24615.33 | 25396.76 |
| 16 | 24643.52 | 25427.73 |
| 17 | 24671.71 | 25458.70 |
| 18 | 24699.90 | 25489.68 |
| 19 | 24728.09 | 25520.66 |
| 20 | 24756.27 | 25551.65 |
| 21 | 24784.45 | 25582.64 |
| 22 | 24812.63 | 25613.63 |
| 23 | 24840.81 | 25644.63 |
| 24 | 24868.99 | 25675.63 |
| 25 | 24897.16 | 25706.64 |
| 26 | 24925.33 | 25737.66 |
| 27 | 24953.50 | 25768.68 |
| 28 | 24981.67 | 25799.70 |
| 29 | 25009.84 | 25830.73 |
| 30 | 25038.00 | 25861.76 |

| Minut. | 75. Grad. Sinus. | Tang. |
|---|---|---|
| 60 | 97029.57 | 401078.09 |
| 59 | 97022.53 | 400581.65 |
| 58 | 97015.48 | 400086.36 |
| 57 | 97008.42 | 399592.23 |
| 56 | 97001.35 | 399099.24 |
| 55 | 96994.28 | 398607.39 |
| 54 | 96987.20 | 398116.69 |
| 53 | 96980.11 | 397627.12 |
| 52 | 96973.01 | 397138.68 |
| 51 | 96965.90 | 396651.37 |
| 50 | 96958.79 | 396165.18 |
| 49 | 96951.67 | 395680.11 |
| 48 | 96944.54 | 395196.15 |
| 47 | 96937.40 | 394713.31 |
| 46 | 96930.25 | 394231.57 |
| 45 | 96923.09 | 393750.94 |
| 44 | 96915.92 | 393271.41 |
| 43 | 96908.75 | 392792.97 |
| 42 | 96901.57 | 392315.63 |
| 41 | 96894.38 | 391839.37 |
| 40 | 96887.18 | 391364.20 |
| 39 | 96879.98 | 390890.11 |
| 38 | 96872.77 | 390417.10 |
| 37 | 96865.55 | 389945.16 |
| 36 | 96858.32 | 389474.29 |
| 35 | 96851.08 | 389004.48 |
| 34 | 96843.83 | 388535.74 |
| 33 | 96836.58 | 388068.05 |
| 32 | 96829.31 | 387601.42 |
| 31 | 96822.04 | 387135.84 |
| 30 | 96814.76 | 386671.31 |

| Minut. | 14. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 25038.00 | 25861.76 |
| 31 | 25066.16 | 25892.80 |
| 32 | 25094.32 | 25923.84 |
| 33 | 25122.48 | 25954.88 |
| 34 | 25150.63 | 25985.93 |
| 35 | 25178.79 | 26016.99 |
| 36 | 25206.94 | 26048.05 |
| 37 | 25235.08 | 26079.11 |
| 38 | 25263.23 | 26110.18 |
| 39 | 25291.37 | 26141.26 |
| 40 | 25319.52 | 26172.34 |
| 41 | 25347.66 | 26203.42 |
| 42 | 25375.79 | 26234.51 |
| 43 | 25403.93 | 26265.60 |
| 44 | 25432.06 | 26296.70 |
| 45 | 25460.19 | 26327.80 |
| 46 | 25488.32 | 26358.91 |
| 47 | 25516.45 | 26390.02 |
| 48 | 25544.58 | 26421.14 |
| 49 | 25572.70 | 26452.26 |
| 50 | 25600.82 | 26483.39 |
| 51 | 25628.94 | 26514.52 |
| 52 | 25657.05 | 26545.66 |
| 53 | 25685.17 | 26576.80 |
| 54 | 25713.28 | 26607.94 |
| 55 | 25741.39 | 26639.09 |
| 56 | 25769.50 | 26670.25 |
| 57 | 25797.60 | 26701.41 |
| 58 | 25825.70 | 26732.57 |
| 59 | 25853.81 | 26763.74 |
| 60 | 25881.90 | 26794.92 |

| Minut. | 75. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 96814.76 | 386671.31 |
| 29 | 96807.47 | 386207.82 |
| 28 | 96800.18 | 385745.37 |
| 27 | 96792.88 | 385283.96 |
| 26 | 96785.57 | 384823.58 |
| 25 | 96778.25 | 384364.24 |
| 24 | 96770.92 | 383905.91 |
| 23 | 96763.58 | 383448.61 |
| 22 | 96756.23 | 382992.33 |
| 21 | 96748.88 | 382537.07 |
| 20 | 96741.52 | 382082.81 |
| 19 | 96734.15 | 381629.57 |
| 18 | 96726.77 | 381177.33 |
| 17 | 96719.38 | 380726.06 |
| 16 | 96711.99 | 380275.85 |
| 15 | 96704.59 | 379826.61 |
| 14 | 96697.18 | 379378.35 |
| 13 | 96689.76 | 378931.09 |
| 12 | 96682.33 | 378484.81 |
| 11 | 96674.90 | 378039.51 |
| 10 | 96667.46 | 377595.19 |
| 9 | 96660.01 | 377151.85 |
| 8 | 96652.55 | 376709.47 |
| 7 | 96645.08 | 376268.07 |
| 6 | 96637.60 | 375827.63 |
| 5 | 96630.12 | 375388.15 |
| 4 | 66622.63 | 374949.63 |
| 3 | 96615.13 | 374512.07 |
| 2 | 96607.62 | 374075.46 |
| 1 | 96600.10 | 373639.80 |
| 0 | 96592.58 | 373205.08 |

| Minut. | 15. Grad. | | Minut. | 74. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 25881.90 | 26794.92 | 60 | 96592.58 | 373205.08 |
| 1 | 25910.00 | 26826.10 | 59 | 96585.05 | 372771.31 |
| 2 | 25938.10 | 26857.28 | 58 | 96577.51 | 372338.47 |
| 3 | 25966.19 | 26888.47 | 57 | 96569.96 | 371906.58 |
| 4 | 25994.28 | 26919.67 | 56 | 96562.40 | 371475.61 |
| 5 | 26022.37 | 26950.87 | 55 | 96554.83 | 371045.58 |
| 6 | 26050.45 | 26982.07 | 54 | 96547.26 | 370616.48 |
| 7 | 26078.53 | 27013.28 | 53 | 96539.68 | 370188.30 |
| 8 | 26106.61 | 27044.49 | 52 | 96532.09 | 369761.03 |
| 9 | 26134.69 | 27075.71 | 51 | 96524.49 | 369334.69 |
| 10 | 26162.77 | 27106.93 | 50 | 96516.88 | 368909.27 |
| 11 | 26190.85 | 27138.16 | 49 | 96509.27 | 368484.75 |
| 12 | 26218.92 | 27169.40 | 48 | 96501.65 | 368061.15 |
| 13 | 26246.99 | 27200.64 | 47 | 96494.02 | 367638.45 |
| 14 | 26275.06 | 27231.88 | 46 | 96486.38 | 367216.65 |
| 15 | 26303.12 | 27263.13 | 45 | 96478.73 | 366795.75 |
| 16 | 26331.18 | 27294.38 | 44 | 96471.07 | 366375.75 |
| 17 | 26359.24 | 27325.64 | 43 | 96463.41 | 365956.65 |
| 18 | 26387.30 | 27356.90 | 42 | 96455.74 | 365538.44 |
| 19 | 26415.36 | 27388.17 | 41 | 96448.06 | 365121.11 |
| 20 | 26443.42 | 27419.44 | 40 | 96440.37 | 364704.67 |
| 21 | 26471.47 | 27450.72 | 39 | 96432.67 | 364289.11 |
| 22 | 26499.52 | 27482.01 | 38 | 96424.97 | 363874.44 |
| 23 | 26527.57 | 27513.30 | 37 | 96417.26 | 363460.64 |
| 24 | 26555.61 | 27544.59 | 36 | 96409.54 | 363047.71 |
| 25 | 26583.65 | 27575.89 | 35 | 96401.81 | 362635.66 |
| 26 | 26611.69 | 27607.19 | 34 | 96394.07 | 362224.47 |
| 27 | 26639.73 | 27638.50 | 33 | 96386.33 | 361814.15 |
| 28 | 26667.77 | 27669.81 | 32 | 96378.58 | 361404.69 |
| 29 | 26695.81 | 27701.13 | 31 | 96370.82 | 360996.09 |
| 30 | 26723.84 | 27732.45 | 30 | 96363.05 | 360588.35 |

| Minut. | 15. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 26723.84 | 27732.45 |
| 31 | 26751.87 | 27763.78 |
| 32 | 26779.89 | 27795.12 |
| 33 | 26807.92 | 27826.46 |
| 34 | 26835.94 | 27857.80 |
| 35 | 26863.96 | 27889.15 |
| 36 | 26891.98 | 27920.50 |
| 37 | 26920.00 | 27951.86 |
| 38 | 26948.01 | 27983.22 |
| 39 | 26976.02 | 28014.59 |
| 40 | 27004.03 | 28045.97 |
| 41 | 27032.04 | 28077.35 |
| 42 | 27060.04 | 28108.73 |
| 43 | 27088.05 | 28140.12 |
| 44 | 27116.05 | 28171.52 |
| 45 | 27144.04 | 28202.92 |
| 46 | 27172.04 | 28234.32 |
| 47 | 27200.03 | 28265.73 |
| 48 | 27228.02 | 28297.15 |
| 49 | 27256.01 | 28328.57 |
| 50 | 27284.00 | 28359.99 |
| 51 | 27311.98 | 28391.42 |
| 52 | 27339.96 | 28422.86 |
| 53 | 27367.94 | 28454.30 |
| 54 | 27395.92 | 28485.75 |
| 55 | 27423.90 | 28517.20 |
| 56 | 27451.87 | 28548.66 |
| 57 | 27479.84 | 28580.12 |
| 58 | 27507.81 | 28611.59 |
| 59 | 27535.78 | 28643.06 |
| 60 | 27563.74 | 28674.54 |

| Minut. | 74. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 96363.05 | 360588.35 |
| 29 | 96355.27 | 360181.46 |
| 28 | 96347.48 | 359775.43 |
| 27 | 96339.69 | 359370.24 |
| 26 | 96331.89 | 358965.90 |
| 25 | 96324.08 | 358562.41 |
| 24 | 96316.26 | 358159.75 |
| 23 | 96308.43 | 357757.94 |
| 22 | 96300.59 | 357356.96 |
| 21 | 96292.75 | 356956.81 |
| 20 | 96284.90 | 356557.49 |
| 19 | 96277.04 | 356159.00 |
| 18 | 96269.17 | 355761.33 |
| 17 | 96261.30 | 355364.49 |
| 16 | 96253.42 | 354968.46 |
| 15 | 96245.52 | 354573.25 |
| 14 | 96237.62 | 354178.86 |
| 13 | 96229.72 | 353785.28 |
| 12 | 96221.80 | 353392.51 |
| 11 | 96213.87 | 353000.54 |
| 10 | 96205.94 | 352609.38 |
| 9 | 96198.00 | 352219.02 |
| 8 | 96190.05 | 351829.46 |
| 7 | 96182.09 | 351440.70 |
| 6 | 96174.13 | 351052.73 |
| 5 | 96166.16 | 350665.55 |
| 4 | 96158.18 | 350279.16 |
| 3 | 96150.19 | 349893.56 |
| 2 | 96142.19 | 349508.74 |
| 1 | 96134.18 | 349124.70 |
| 0 | 96126.17 | 348741.44 |

| Minut. | 16. Grad. | | Minut. | 73. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 27563.74 | 28674.54 | 60 | 96126.17 | 348741.44 |
| 1 | 27591.70 | 28706.02 | 59 | 96118.15 | 348358.96 |
| 2 | 27619.65 | 28737.51 | 58 | 96110.12 | 347977.26 |
| 3 | 27647.61 | 28769.00 | 57 | 96102.08 | 347596.32 |
| 4 | 27675.56 | 28800.50 | 56 | 96094.03 | 347216.16 |
| 5 | 27703.52 | 28832.01 | 55 | 96085.98 | 346836.76 |
| 6 | 27731.47 | 28863.52 | 54 | 96077.92 | 346458.13 |
| 7 | 27759.41 | 28895.03 | 53 | 96069.84 | 346080.26 |
| 8 | 27787.36 | 28926.55 | 52 | 96061.77 | 345703.15 |
| 9 | 27815.30 | 28958.08 | 51 | 96053.68 | 345326.79 |
| 10 | 27843.24 | 28989.61 | 50 | 96045.58 | 344951.20 |
| 11 | 27871.18 | 29021.14 | 49 | 96037.48 | 344576.35 |
| 12 | 27899.11 | 29052.68 | 48 | 96029.37 | 344202.26 |
| 13 | 27927.04 | 29084.23 | 47 | 96021.25 | 343828.91 |
| 14 | 27954.97 | 29115.78 | 46 | 96013.12 | 343456.31 |
| 15 | 27982.90 | 29147.34 | 45 | 96004.99 | 343084.46 |
| 16 | 28010.83 | 29178.90 | 44 | 95996.84 | 342713.34 |
| 17 | 28038.75 | 29210.47 | 43 | 95988.69 | 342342.97 |
| 18 | 28066.67 | 29242.05 | 42 | 95980.53 | 341973.33 |
| 19 | 28094.59 | 29273.63 | 41 | 95972.36 | 341604.43 |
| 20 | 28122.51 | 29305.21 | 40 | 95964.18 | 341236.26 |
| 21 | 28150.42 | 29336.80 | 39 | 95956.00 | 340868.82 |
| 22 | 28178.33 | 29368.39 | 38 | 95947.81 | 340502.10 |
| 23 | 28206.24 | 29399.99 | 37 | 95939.61 | 340136.12 |
| 24 | 28234.15 | 29431.60 | 36 | 95931.40 | 339770.85 |
| 25 | 28262.05 | 29463.21 | 35 | 95923.18 | 339406.31 |
| 26 | 28289.95 | 29494.83 | 34 | 95914.96 | 339042.49 |
| 27 | 28317.85 | 29526.45 | 33 | 95906.72 | 338679.38 |
| 28 | 28345.75 | 29558.08 | 32 | 95898.48 | 338316.99 |
| 29 | 28373.64 | 29589.71 | 31 | 95890.23 | 337955.31 |
| 30 | 28401.53 | 29621.35 | 30 | 95881.97 | 337594.34 |

| Minut. | 16. Grad. | | Minut. | 73. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 28401.53 | 29621.35 | 30 | 95881.97 | 337594.34 |
| 31 | 28429.42 | 29652.99 | 29 | 95873.71 | 337234.08 |
| 32 | 28457.31 | 29684.64 | 28 | 95865.43 | 336874.53 |
| 33 | 28485.20 | 29716.30 | 27 | 95857.15 | 336515.68 |
| 34 | 28513.08 | 29747.96 | 26 | 95848.86 | 336157.53 |
| 35 | 28540.96 | 29779.62 | 25 | 95840.56 | 335800.08 |
| 36 | 28568.84 | 29811.29 | 24 | 95832.26 | 335443.33 |
| 37 | 28596.71 | 29842.97 | 23 | 95823.94 | 335087.28 |
| 38 | 28624.58 | 29874.65 | 22 | 95815.62 | 334731.91 |
| 39 | 28652.45 | 29906.34 | 21 | 95807.29 | 334377.24 |
| 40 | 28680.32 | 29938.03 | 20 | 95798.95 | 334023.26 |
| 41 | 28708.19 | 29969.73 | 19 | 95790.60 | 333669.97 |
| 42 | 28736.05 | 30001.44 | 18 | 95782.25 | 333317.36 |
| 43 | 28763.91 | 30033.15 | 17 | 95773.89 | 332965.43 |
| 44 | 28791.77 | 30064.86 | 16 | 95765.52 | 332614.19 |
| 45 | 28819.63 | 30096.58 | 15 | 95757.14 | 332263.62 |
| 46 | 28847.48 | 30128.31 | 14 | 95748.75 | 331913.73 |
| 47 | 28875.33 | 30160.04 | 13 | 95740.35 | 331564.52 |
| 48 | 28903.18 | 30191.78 | 12 | 95731.95 | 331215.98 |
| 49 | 28931.03 | 30223.52 | 11 | 95723.54 | 330868.11 |
| 50 | 28958.87 | 30255.27 | 10 | 95715.12 | 330520.91 |
| 51 | 28986.71 | 30287.03 | 9 | 95706.69 | 330174.38 |
| 52 | 29014.55 | 30318.79 | 8 | 95698.25 | 329828.51 |
| 53 | 29042.39 | 30350.55 | 7 | 95689.81 | 329483.30 |
| 54 | 29070.22 | 30382.32 | 6 | 95681.36 | 329138.76 |
| 55 | 29098.05 | 30414.10 | 5 | 95672.90 | 328794.87 |
| 56 | 29125.88 | 30445.88 | 4 | 95664.43 | 328451.64 |
| 57 | 29153.71 | 30477.67 | 3 | 95655.95 | 328109.07 |
| 58 | 29181.53 | 30509.46 | 2 | 95647.47 | 327767.15 |
| 59 | 29209.35 | 30541.26 | 1 | 95638.98 | 327425.88 |
| 60 | 29237.17 | 30573.07 | 0 | 95630.48 | 327085.26 |

| Minut. | 17. Grad. | | Minut. | 72. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 29237.17 | 30573.07 | 60 | 95630.48 | 327085.26 |
| 1 | 29264.99 | 30604.88 | 59 | 95621.97 | 326745.29 |
| 2 | 29292.80 | 30636.69 | 58 | 95613.45 | 326405.96 |
| 3 | 29320.61 | 30668.51 | 57 | 95604.92 | 326067.28 |
| 4 | 29348.42 | 30700.34 | 56 | 95596.39 | 325729.24 |
| 5 | 29376.23 | 30732.18 | 55 | 95587.85 | 325391.84 |
| 6 | 29404.03 | 30764.02 | 54 | 95579.30 | 325055.08 |
| 7 | 29431.83 | 30795.86 | 53 | 95570.74 | 324718.95 |
| 8 | 29459.63 | 30827.71 | 52 | 95562.17 | 324383.46 |
| 9 | 29487.43 | 30859.57 | 51 | 95553.60 | 324048.60 |
| 10 | 29515.22 | 30891.43 | 50 | 95545.02 | 323714.38 |
| 11 | 29543.02 | 30923.30 | 49 | 95536.43 | 323380.78 |
| 12 | 29570.80 | 30955.17 | 48 | 95527.83 | 323047.80 |
| 13 | 29598.59 | 30987.05 | 47 | 95519.24 | 322715.46 |
| 14 | 29626.38 | 31018.93 | 46 | 95510.61 | 322383.73 |
| 15 | 29654.16 | 31050.82 | 45 | 95501.99 | 322052.63 |
| 16 | 29681.94 | 31082.72 | 44 | 95493.36 | 321722.15 |
| 17 | 29709.71 | 31114.62 | 43 | 95484.73 | 321392.28 |
| 18 | 29737.49 | 31146.53 | 42 | 95476.08 | 321063.04 |
| 19 | 29765.26 | 31178.44 | 41 | 95467.42 | 320734.40 |
| 20 | 29793.03 | 31210.36 | 40 | 95458.76 | 320406.38 |
| 21 | 29820.79 | 31242.29 | 39 | 95450.09 | 320078.97 |
| 22 | 29848.56 | 31274.22 | 38 | 95441.41 | 319752.17 |
| 23 | 29876.32 | 31306.16 | 37 | 95432.73 | 319425.98 |
| 24 | 29904.08 | 31338.10 | 36 | 95424.03 | 319100.39 |
| 25 | 29931.84 | 31370.05 | 35 | 95415.33 | 318775.40 |
| 26 | 29959.59 | 31402.00 | 34 | 95406.62 | 318451.02 |
| 27 | 29987.34 | 31433.96 | 33 | 95397.90 | 318127.24 |
| 28 | 30015.09 | 31465.93 | 32 | 95389.17 | 317804.06 |
| 29 | 30042.84 | 31497.90 | 31 | 95380.44 | 317481.47 |
| 30 | 30070.58 | 31529.88 | 30 | 95371.69 | 317159.48 |

| Minut. | 17. Grad. | | Minut. | 72. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 30070.58 | 31529.88 | 30 | 95371.69 | 317159.48 |
| 31 | 30098.32 | 31561.86 | 29 | 95362.94 | 316838.08 |
| 32 | 30126.06 | 31593.85 | 28 | 95354.18 | 316517.28 |
| 33 | 30153.80 | 31625.85 | 27 | 95345.42 | 316197.06 |
| 34 | 30181.53 | 31657.85 | 26 | 95336.64 | 315877.44 |
| 35 | 30209.26 | 31689.86 | 25 | 95327.86 | 315558.40 |
| 36 | 30236.99 | 31721.87 | 24 | 95319.07 | 315239.94 |
| 37 | 30264.71 | 31753.89 | 23 | 95310.27 | 314922.07 |
| 38 | 30292.44 | 31785.91 | 22 | 95301.46 | 314604.78 |
| 39 | 30320.16 | 31817.94 | 21 | 95292.64 | 314288.07 |
| 40 | 30347.88 | 31849.98 | 20 | 95283.82 | 313971.94 |
| 41 | 30375.59 | 31882.02 | 19 | 95274.99 | 313656.35 |
| 42 | 30403.31 | 31914.07 | 18 | 95266.15 | 313341.41 |
| 43 | 30431.02 | 31946.13 | 17 | 95257.30 | 313027.01 |
| 44 | 30458.72 | 31978.19 | 16 | 95248.44 | 312713.17 |
| 45 | 30486.43 | 32010.25 | 15 | 95239.58 | 312399.91 |
| 46 | 30514.13 | 32042.32 | 14 | 95230.71 | 312087.22 |
| 47 | 30541.83 | 32074.40 | 13 | 95221.83 | 311775.05 |
| 48 | 30569.53 | 32106.49 | 12 | 95212.94 | 311463.53 |
| 49 | 30597.23 | 32138.58 | 11 | 95204.04 | 311152.54 |
| 50 | 30624.92 | 32170.67 | 10 | 95195.14 | 310842.10 |
| 51 | 30652.61 | 32202.77 | 9 | 95186.23 | 310532.23 |
| 52 | 30680.29 | 32234.88 | 8 | 95177.31 | 310222.91 |
| 53 | 30707.98 | 32267.00 | 7 | 95168.38 | 309914.10 |
| 54 | 30735.66 | 32299.12 | 6 | 94159.44 | 309605.90 |
| 55 | 30763.34 | 32331.25 | 5 | 95150.50 | 309298.3 |
| 56 | 30791.02 | 32363.38 | 4 | 95141.54 | 308991.2 |
| 57 | 30818.69 | 32395.52 | 3 | 95132.58 | 308684.6 |
| 58 | 30846.36 | 32427.66 | 2 | 95123.61 | 308378.6 |
| 59 | 30874.03 | 32459.81 | 1 | 95114.64 | 308073.2 |
| 60 | 30901.70 | 32491.97 | 0 | 95105.65 | 307768.3 |

| Minut. | 18. Grad. Sinus. | Tang. | Minut. | 71. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 30901.70 | 32491.97 | 60 | 95105.65 | 307768.35 |
| 1 | 30929.36 | 32524.13 | 59 | 95096.66 | 307464.00 |
| 2 | 30957.02 | 32556.30 | 58 | 95087.66 | 307160.20 |
| 3 | 30984.68 | 32588.48 | 57 | 95078.65 | 306856.93 |
| 4 | 31012.34 | 32620.66 | 56 | 95069.63 | 306554.21 |
| 5 | 31039.99 | 32652.85 | 55 | 95060.60 | 306252.03 |
| 6 | 31067.64 | 32685.04 | 54 | 95051.57 | 305950.38 |
| 7 | 31095.29 | 32717.24 | 53 | 95042.53 | 305649.28 |
| 8 | 31122.94 | 32749.44 | 52 | 95033.48 | 305348.70 |
| 9 | 31150.58 | 32781.65 | 51 | 95024.42 | 305048.66 |
| 10 | 31178.22 | 32813.87 | 50 | 95015.36 | 304749.15 |
| 11 | 31205.86 | 32846.10 | 49 | 95006.29 | 304450.18 |
| 12 | 31233.49 | 32878.33 | 48 | 94997.21 | 304151.73 |
| 13 | 31261.12 | 32910.56 | 47 | 94988.12 | 303853.81 |
| 14 | 31288.75 | 32942.80 | 46 | 94979.02 | 303556.41 |
| 15 | 31316.38 | 32975.05 | 45 | 94969.91 | 303259.54 |
| 16 | 31344.00 | 33007.31 | 44 | 94960.80 | 302963.20 |
| 17 | 31371.63 | 33039.57 | 43 | 94951.68 | 302667.37 |
| 18 | 31399.25 | 33071.84 | 42 | 94942.55 | 302372.07 |
| 19 | 31426.86 | 33104.11 | 41 | 94933.41 | 302077.28 |
| 20 | 31454.48 | 33136.39 | 40 | 94924.26 | 301783.01 |
| 21 | 31482.09 | 33168.68 | 39 | 94915.11 | 301489.26 |
| 22 | 31509.69 | 33200.97 | 38 | 94905.95 | 301196.02 |
| 23 | 31537.30 | 33233.27 | 37 | 94896.78 | 300903.30 |
| 24 | 31564.90 | 33265.57 | 36 | 94887.60 | 300611.09 |
| 25 | 31592.50 | 33297.88 | 35 | 94878.41 | 300319.39 |
| 26 | 31620.10 | 33330.20 | 34 | 94869.22 | 300028.20 |
| 27 | 31647.70 | 33362.52 | 33 | 94860.02 | 299737.51 |
| 28 | 31675.29 | 33394.85 | 32 | 94850.81 | 299447.34 |
| 29 | 31702.88 | 33427.19 | 31 | 94841.59 | 299157.66 |
| 30 | 31730.47 | 33459.53 | 30 | 94832.37 | 298868.50 |

| Minut. | 18. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 31730.47 | 33459.53 |
| 31 | 31758.05 | 33491.88 |
| 32 | 31785.63 | 33524.24 |
| 33 | 31813.21 | 33556.60 |
| 34 | 31840.79 | 33588.97 |
| 35 | 31868.36 | 33621.34 |
| 36 | 31895.93 | 33653.72 |
| 37 | 31923.50 | 33686.11 |
| 38 | 31951.06 | 33718.50 |
| 39 | 31978.63 | 33750.90 |
| 40 | 32006.19 | 33783.30 |
| 41 | 32033.74 | 33815.71 |
| 42 | 32061.30 | 33848.13 |
| 43 | 32088.85 | 33880.56 |
| 44 | 32116.40 | 33912.99 |
| 45 | 32143.95 | 33945.43 |
| 46 | 32171.49 | 33977.87 |
| 47 | 32199.03 | 34010.32 |
| 48 | 32226.57 | 34042.78 |
| 49 | 32254.10 | 34107.24 |
| 50 | 32281.64 | 34075.71 |
| 51 | 32309.17 | 34140.19 |
| 52 | 32336.70 | 34172.67 |
| 53 | 32364.22 | 34205.16 |
| 54 | 32391.74 | 34237.65 |
| 55 | 32419.26 | 34270.15 |
| 56 | 32446.78 | 34302.66 |
| 57 | 32474.29 | 34335.18 |
| 58 | 32501.80 | 34367.70 |
| 59 | 32529.31 | 34400.23 |
| 60 | 32556.82 | 34432.76 |

| Minut. | 71. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 94832.36 | 298868.50 |
| 29 | 94823.13 | 298579.83 |
| 28 | 94813.89 | 298291.66 |
| 27 | 94804.64 | 298004.00 |
| 26 | 94795.38 | 297716.83 |
| 25 | 94786.11 | 297430.16 |
| 24 | 94776.84 | 297143.99 |
| 23 | 94767.56 | 296858.31 |
| 22 | 94758.27 | 296573.12 |
| 21 | 94748.97 | 296288.42 |
| 20 | 94739.66 | 296004.22 |
| 19 | 94730.35 | 295720.50 |
| 18 | 94721.03 | 295437.27 |
| 17 | 94711.70 | 295154.53 |
| 16 | 94702.36 | 294872.27 |
| 15 | 94693.01 | 294590.50 |
| 14 | 94683.66 | 294309.21 |
| 13 | 94674.30 | 294028.40 |
| 12 | 94664.93 | 293748.07 |
| 11 | 94655.55 | 293468.22 |
| 10 | 94646.16 | 293188.8 |
| 9 | 94636.76 | 292909.9 |
| 8 | 94627.36 | 292631.5 |
| 7 | 94617.95 | 292353.5 |
| 6 | 94608.53 | 292076.1 |
| 5 | 94599.10 | 291799.0 |
| 4 | 94589.67 | 291522.5 |
| 3 | 94580.23 | 291246.4 |
| 2 | 94570.78 | 290970.8 |
| 1 | 94561.32 | 290695.7 |
| 0 | 94551.86 | 290421.0 |

| Minut. | 19. Grad. Sinus. | Tang. | Minut. | 70. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 32556.82 | 34432.76 | 60 | 94551.86 | 290421.09 |
| 1 | 32584.32 | 34465.30 | 59 | 94542.38 | 290146.88 |
| 2 | 32611.82 | 34497.85 | 58 | 94532.90 | 289873.14 |
| 3 | 32639.31 | 34530.40 | 57 | 94523.41 | 289599.86 |
| 4 | 32666.81 | 34562.96 | 56 | 94513.91 | 289327.04 |
| 5 | 32694.30 | 34595.53 | 55 | 94504.40 | 289054.67 |
| 6 | 32721.79 | 34628.10 | 54 | 94494.89 | 288782.77 |
| 7 | 32749.28 | 34660.68 | 53 | 94485.37 | 288511.32 |
| 8 | 32776.76 | 34693.27 | 52 | 94475.84 | 288240.33 |
| 9 | 32804.24 | 34725.86 | 51 | 94466.30 | 287969.79 |
| 10 | 32831.72 | 34758.46 | 50 | 94456.75 | 287699.70 |
| 11 | 32859.19 | 34791.07 | 49 | 94447.20 | 287430.07 |
| 12 | 32886.66 | 34823.68 | 48 | 94437.64 | 287160.88 |
| 13 | 32914.13 | 34856.30 | 47 | 94428.07 | 286892.15 |
| 14 | 32941.60 | 34888.93 | 46 | 94418.49 | 286623.86 |
| 15 | 32969.06 | 34921.56 | 45 | 94408.90 | 286356.02 |
| 16 | 32996.52 | 34954.20 | 44 | 94399.31 | 286088.63 |
| 17 | 33023.98 | 34986.85 | 43 | 94389.71 | 285821.68 |
| 18 | 33051.44 | 35019.50 | 42 | 94380.10 | 285555.17 |
| 19 | 33078.89 | 35052.16 | 41 | 94370.48 | 285289.11 |
| 20 | 33106.34 | 35084.83 | 40 | 94360.85 | 285023.49 |
| 21 | 33133.79 | 35117.50 | 39 | 94351.22 | 284758.31 |
| 22 | 33161.23 | 35150.18 | 38 | 94341.57 | 284493.56 |
| 23 | 33188.67 | 35182.87 | 37 | 94331.92 | 284229.26 |
| 24 | 33216.11 | 35215.56 | 36 | 94322.27 | 283965.39 |
| 25 | 33243.55 | 35248.26 | 35 | 94312.60 | 283701.96 |
| 26 | 33270.98 | 35280.97 | 34 | 94302.93 | 283438.96 |
| 27 | 33298.41 | 35313.68 | 33 | 94293.25 | 283176.39 |
| 28 | 33325.84 | 35346.40 | 32 | 94283.56 | 282914.26 |
| 29 | 33353.27 | 35379.13 | 31 | 94273.86 | 282652.56 |
| 30 | 33380.69 | 35411.86 | 30 | 94264.15 | 282391.29 |

| Minut. | 19. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 33380.69 | 35411.86 |
| 31 | 33408.10 | 35444.60 |
| 32 | 33435.52 | 35477.35 |
| 33 | 33462.93 | 35510.10 |
| 34 | 33490.34 | 35542.86 |
| 35 | 33517.75 | 35575.63 |
| 36 | 33545.16 | 35608.40 |
| 37 | 33572.56 | 35641.18 |
| 38 | 33599.96 | 35673.97 |
| 39 | 33627.35 | 35706.76 |
| 40 | 33654.75 | 35739.56 |
| 41 | 33682.14 | 35772.37 |
| 42 | 33709.53 | 35805.18 |
| 43 | 33736.91 | 35838.00 |
| 44 | 33764.29 | 35870.83 |
| 45 | 33791.67 | 35903.67 |
| 46 | 33819.05 | 35936.51 |
| 47 | 33846.42 | 35969.36 |
| 48 | 33873.79 | 36002.22 |
| 49 | 33901.16 | 36035.08 |
| 50 | 33928.53 | 36067.95 |
| 51 | 33955.89 | 36100.83 |
| 52 | 33983.25 | 36133.71 |
| 53 | 34010.60 | 36166.60 |
| 54 | 34037.95 | 36199.50 |
| 55 | 34065.30 | 36232.40 |
| 56 | 34092.65 | 36265.31 |
| 57 | 34120.00 | 36298.23 |
| 58 | 34147.34 | 36331.15 |
| 59 | 34174.68 | 36364.08 |
| 60 | 34202.01 | 36397.02 |

| Minut. | 70. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 94264.15 | 282391.29 |
| 29 | 94254.43 | 282130.45 |
| 28 | 94244.71 | 281870.03 |
| 27 | 94234.98 | 281610.04 |
| 26 | 94225.24 | 281350.48 |
| 25 | 94215.50 | 281091.34 |
| 24 | 94205.75 | 280832.63 |
| 23 | 94195.98 | 280574.33 |
| 22 | 94186.21 | 280316.46 |
| 21 | 94176.44 | 280059.01 |
| 20 | 94166.65 | 279801.98 |
| 19 | 94156.86 | 279545.37 |
| 18 | 94147.05 | 279289.17 |
| 17 | 94137.24 | 279033.39 |
| 16 | 94127.43 | 278778.02 |
| 15 | 94117.60 | 278523.07 |
| 14 | 94107.77 | 278268.53 |
| 13 | 94097.93 | 278014.40 |
| 12 | 94088.08 | 277760.69 |
| 11 | 94078.22 | 277507.38 |
| 10 | 94068.35 | 277254.48 |
| 9 | 94058.48 | 277001.99 |
| 8 | 94048.60 | 276749.90 |
| 7 | 94038.71 | 276498.22 |
| 6 | 94028.81 | 276246.95 |
| 5 | 94018.91 | 275996.08 |
| 4 | 94008.99 | 275745.61 |
| 3 | 93999.07 | 275495.54 |
| 2 | 93989.14 | 275245.88 |
| 1 | 93979.21 | 274996.61 |
| 0 | 93969.26 | 274747.74 |

| Minut. | 20. Grad. | | Minut. | 69. Grad. | |
|---|---|---|---|---|---|
| | Sinusin | Tangen | | Sinusin | Tang. |
| 0 | 34202.02 | 36397.02 | 60 | 93969.26 | 274747.74 |
| 1 | 34229.35 | 36429.97 | 59 | 93959.31 | 274499.27 |
| 2 | 34256.66 | 36462.92 | 58 | 93949.35 | 274251.20 |
| 3 | 34284.01 | 36495.88 | 57 | 93939.38 | 274003.52 |
| 4 | 34311.33 | 36528.85 | 56 | 93929.40 | 273756.23 |
| 5 | 34338.65 | 36561.82 | 55 | 93919.42 | 273509.34 |
| 6 | 34365.97 | 36594.80 | 54 | 93909.43 | 273262.84 |
| 7 | 34393.29 | 36627.79 | 53 | 93899.43 | 273016.74 |
| 8 | 34420.60 | 36660.79 | 52 | 93889.42 | 272771.02 |
| 9 | 34447.91 | 36693.79 | 51 | 93879.40 | 272525.69 |
| 10 | 34475.21 | 36726.80 | 50 | 93869.37 | 272280.75 |
| 11 | 34502.52 | 36759.82 | 49 | 93859.34 | 272036.20 |
| 12 | 34529.82 | 36792.84 | 48 | 93849.30 | 271792.04 |
| 13 | 34557.12 | 36825.87 | 47 | 93839.25 | 271548.26 |
| 14 | 34584.41 | 36858.91 | 46 | 93829.19 | 271304.87 |
| 15 | 34611.71 | 36891.95 | 45 | 93819.13 | 271061.86 |
| 16 | 34639.00 | 36925.00 | 44 | 93809.06 | 270819.23 |
| 17 | 34666.28 | 36958.06 | 43 | 93798.98 | 270576.99 |
| 18 | 34693.57 | 36991.13 | 42 | 93788.89 | 270335.13 |
| 19 | 34720.85 | 37024.20 | 41 | 93778.80 | 270093.64 |
| 20 | 34748.12 | 37057.28 | 40 | 93768.69 | 269852.54 |
| 21 | 34775 40 | 37090.37 | 39 | 93758.58 | 269611.81 |
| 22 | 34802.67 | 37123.46 | 38 | 93748.46 | 269371.47 |
| 23 | 34829.94 | 37156.56 | 37 | 93738.33 | 269131.49 |
| 24 | 34857.20 | 37189.67 | 36 | 93728.20 | 268891.90 |
| 25 | 34884.47 | 37222.78 | 35 | 93718.06 | 268652.67 |
| 26 | 34911.73 | 37255.90 | 34 | 93707.90 | 268413.83 |
| 27 | 34938.98 | 37289.03 | 33 | 93697.74 | 268175.35 |
| 28 | 34966.24 | 37322.17 | 32 | 93687.58 | 267937.25 |
| 29 | 34993.49 | 37355.32 | 31 | 93677.40 | 267699.51 |
| 30 | 35020.74 | 37388.47 | 30 | 93667.22 | 267462.15 |

| Minut. | 20. Grad. | | Minut. | 69. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 35020.74 | 37388.47 | 30 | 93667.22 | 267462.15 |
| 31 | 35047.99 | 37421.63 | 29 | 93657.03 | 267225.16 |
| 32 | 35075.23 | 37454.79 | 28 | 93646.83 | 266988.53 |
| 33 | 35102.46 | 37487.97 | 27 | 93636.62 | 266752.27 |
| 34 | 35129.70 | 37521.15 | 26 | 93626.41 | 266516.38 |
| 35 | 35156.93 | 37554.34 | 25 | 93616.18 | 266280.85 |
| 36 | 35184.16 | 37587.53 | 24 | 93605.95 | 266045.69 |
| 37 | 35211.39 | 37620.73 | 23 | 93595.71 | 265810.89 |
| 38 | 35238.62 | 37653.94 | 22 | 93585.47 | 265576.45 |
| 39 | 35265.84 | 37687.16 | 21 | 93575.21 | 265342.38 |
| 40 | 35293.06 | 37720.38 | 20 | 93564.95 | 265108.67 |
| 41 | 35320.27 | 37753.61 | 19 | 93554.68 | 264875.31 |
| 42 | 35347.48 | 37786.85 | 18 | 93544.40 | 264642.32 |
| 43 | 35374.69 | 37820.10 | 17 | 93534.12 | 264409.69 |
| 44 | 35401.90 | 37853.35 | 16 | 93523.82 | 264177.41 |
| 45 | 35429.10 | 37886.61 | 15 | 93513.52 | 263945.49 |
| 46 | 35456.30 | 37919.88 | 14 | 93503.21 | 263713.92 |
| 47 | 35483.50 | 37953.16 | 13 | 93492.89 | 263482.71 |
| 48 | 35510.70 | 37986.44 | 12 | 93482.57 | 263251.86 |
| 49 | 35537.89 | 38019.73 | 11 | 93472.23 | 263021.36 |
| 50 | 35565.08 | 38053.03 | 10 | 93461.89 | 262791.21 |
| 51 | 35592.26 | 38086.33 | 9 | 93451.54 | 262561.41 |
| 52 | 35619.44 | 38119.64 | 8 | 93441.18 | 262331.96 |
| 53 | 35646.62 | 38152.96 | 7 | 93430.82 | 262102.86 |
| 54 | 35673.80 | 38186.29 | 6 | 93420.45 | 261874.11 |
| 55 | 35700.97 | 38219.62 | 5 | 93410.07 | 261645.71 |
| 56 | 35728.14 | 38252.96 | 4 | 93399.68 | 261417.66 |
| 57 | 35755.31 | 38286.31 | 3 | 93389.28 | 261189.95 |
| 58 | 35782.48 | 38319.67 | 2 | 93378.88 | 260962.59 |
| 59 | 35809.64 | 38353.03 | 1 | 93368.46 | 260735.58 |
| 60 | 35836.79 | 38386.40 | 0 | 93358.04 | 260508.91 |

| Minut. | 21. Grad. | | Minut. | 68. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 35836.79 | 38386.40 | 60 | 93358.04 | 260508.91 |
| 1 | 35863.95 | 38419.78 | 59 | 93347.61 | 260282.58 |
| 2 | 35891.10 | 38453.17 | 58 | 93337.18 | 260056.59 |
| 3 | 35918.25 | 38486.56 | 57 | 93326.73 | 259830.95 |
| 4 | 35945.40 | 38519.96 | 56 | 93316.28 | 259605.64 |
| 5 | 35972.54 | 38553.37 | 55 | 93305.82 | 259380.68 |
| 6 | 35999.68 | 38586.79 | 54 | 93295.35 | 259156.06 |
| 7 | 36026.82 | 38620.21 | 53 | 93284.88 | 258931.77 |
| 8 | 36053.95 | 38653.64 | 52 | 93274.39 | 258707.82 |
| 9 | 36081.08 | 38687.08 | 51 | 93263.90 | 258484.21 |
| 10 | 36108.21 | 38720.53 | 50 | 93253.40 | 258260.94 |
| 11 | 36135.33 | 38753.98 | 49 | 93242.90 | 258038.00 |
| 12 | 36162.46 | 38787.44 | 48 | 93232.38 | 257815.39 |
| 13 | 36189.58 | 38820.91 | 47 | 93221.86 | 257593.12 |
| 14 | 36216.69 | 38854.39 | 46 | 93211.33 | 257371.18 |
| 15 | 36243.80 | 38887.87 | 45 | 93200.79 | 257149.57 |
| 16 | 36270.91 | 38921.36 | 44 | 93190.24 | 256928.30 |
| 17 | 36298.02 | 38954.86 | 43 | 93179.69 | 256707.35 |
| 18 | 36325.12 | 38988.37 | 42 | 93169.12 | 256486.74 |
| 19 | 36352.22 | 39021.89 | 41 | 93158.55 | 256266.45 |
| 20 | 36379.32 | 39055.41 | 40 | 93147.97 | 256046.49 |
| 21 | 36406.41 | 39088.94 | 39 | 93137.39 | 255826.86 |
| 22 | 36433.51 | 39122.48 | 38 | 93126.79 | 255607.56 |
| 23 | 36460.59 | 39156.02 | 37 | 93116.19 | 255388.58 |
| 24 | 36487.68 | 39189.57 | 36 | 93105.58 | 255169.92 |
| 25 | 36514.76 | 39223.13 | 35 | 93094.96 | 254951.60 |
| 26 | 36541.84 | 39256.70 | 34 | 93084.33 | 254733.59 |
| 27 | 36568.91 | 39290.28 | 33 | 93073.70 | 254515.91 |
| 28 | 36595.99 | 39323.86 | 32 | 93063.06 | 254298.55 |
| 29 | 36623.06 | 39357.45 | 31 | 93052.41 | 254081.51 |
| 30 | 36650.12 | 39391.05 | 30 | 93041.76 | 253864.79 |

| Minut. | 21. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 36650.12 | 39391.05 |
| 31 | 36677.19 | 39424.66 |
| 32 | 36704.25 | 39458.27 |
| 33 | 36731.30 | 39491.89 |
| 34 | 36758.36 | 39525.52 |
| 35 | 36785.41 | 39559.16 |
| 36 | 36812.46 | 39592.80 |
| 37 | 36839.50 | 39626.45 |
| 38 | 36866.54 | 39660.11 |
| 39 | 36893.58 | 39693.78 |
| 40 | 36920.61 | 39727.46 |
| 41 | 36947.65 | 39761.14 |
| 42 | 36974.68 | 39794.83 |
| 43 | 37001.70 | 39828.53 |
| 44 | 37028.72 | 39862.24 |
| 45 | 37055.74 | 39895.96 |
| 46 | 37082.76 | 39929.68 |
| 47 | 37109.77 | 39963.41 |
| 48 | 37136.78 | 39997.15 |
| 49 | 37163.79 | 40030.89 |
| 50 | 37190.79 | 40064.65 |
| 51 | 37217.80 | 40098.41 |
| 52 | 37244.79 | 40132.18 |
| 53 | 37271.79 | 40165.96 |
| 54 | 37298.78 | 40199.75 |
| 55 | 37325.77 | 40233.54 |
| 56 | 37352.75 | 40267.34 |
| 57 | 37379.73 | 40301.15 |
| 58 | 37406.71 | 40334.97 |
| 59 | 37433.69 | 40368.79 |
| 60 | 37460.66 | 40402.62 |

| Minut. | 68. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 93041.76 | 253864.79 |
| 29 | 93031.09 | 253648.39 |
| 28 | 93020.42 | 253432.31 |
| 27 | 93009.74 | 253216.55 |
| 26 | 92999.05 | 253001.11 |
| 25 | 92988.35 | 252785.98 |
| 24 | 92977.65 | 252571.17 |
| 23 | 92966.94 | 252356.67 |
| 22 | 92956.22 | 252142.49 |
| 21 | 92945.49 | 251928.63 |
| 20 | 92934.75 | 251715.07 |
| 19 | 92924.01 | 251501.83 |
| 18 | 92913.26 | 251288.90 |
| 17 | 92902.50 | 251076.29 |
| 16 | 92891.73 | 250863.98 |
| 15 | 92880.95 | 250651.98 |
| 14 | 92870.17 | 250440.29 |
| 13 | 92859.38 | 250228.91 |
| 12 | 92848.58 | 250017.84 |
| 11 | 92837.78 | 249807.07 |
| 10 | 92826.96 | 249596.61 |
| 9 | 92816.14 | 249386.45 |
| 8 | 92805.31 | 249176.60 |
| 7 | 92794.47 | 248967.06 |
| 6 | 92783.62 | 248757.81 |
| 5 | 92772.77 | 248548.87 |
| 4 | 92761.91 | 248340.23 |
| 3 | 92751.04 | 248131.90 |
| 2 | 92740.16 | 247923.86 |
| 1 | 92729.28 | 247716.12 |
| 0 | 92718.39 | 247508.69 |

| Minut. | 22. Grad. | | Minut. | 67. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 37460.66 | 40402.62 | 60 | 92718.39 | 247508.65 |
| 1 | 37487.63 | 40436.46 | 59 | 92707.49 | 247301.55 |
| 2 | 37514.59 | 40470.31 | 58 | 92696.58 | 247094.70 |
| 3 | 37541.56 | 40504.17 | 57 | 92685.66 | 246888.16 |
| 4 | 37568.52 | 40538.04 | 56 | 92674.73 | 246681.91 |
| 5 | 37595.47 | 40571.91 | 55 | 92663.80 | 246475.96 |
| 6 | 37622.43 | 40605.79 | 54 | 92652.86 | 246270.30 |
| 7 | 37649.38 | 40639.68 | 53 | 92641.91 | 246064.94 |
| 8 | 37676.32 | 40673.58 | 52 | 92630.96 | 245859.87 |
| 9 | 37703.27 | 40707.48 | 51 | 92620.00 | 245655.09 |
| 10 | 37730.21 | 40741.39 | 50 | 92609.03 | 245450.61 |
| 11 | 37757.14 | 40775.31 | 49 | 92598.05 | 245246.42 |
| 12 | 37784.08 | 40809.24 | 48 | 92587.06 | 245042.52 |
| 13 | 37811.01 | 40843.18 | 47 | 92576.06 | 244838.91 |
| 14 | 37837.94 | 40877.13 | 46 | 92565.06 | 244635.59 |
| 15 | 37864.86 | 40911.08 | 45 | 92554.05 | 244432.56 |
| 16 | 37891.78 | 40945.04 | 44 | 92543.03 | 244229.82 |
| 17 | 37918.70 | 40979.01 | 43 | 92532.01 | 244027.36 |
| 18 | 37945.62 | 41012.99 | 42 | 92520.97 | 243825.19 |
| 19 | 37972.53 | 41046.97 | 41 | 92509.93 | 243623.31 |
| 20 | 37999.44 | 41080.97 | 40 | 92498.88 | 243421.72 |
| 21 | 38026.34 | 41114.97 | 39 | 92487.82 | 243220.41 |
| 22 | 38053.24 | 41148.98 | 38 | 92476.76 | 243019.38 |
| 23 | 38080.14 | 41183.00 | 37 | 92465.68 | 242818.64 |
| 24 | 38107.04 | 41217.03 | 36 | 92454.60 | 242618.19 |
| 25 | 38133.93 | 41251.06 | 35 | 92443.51 | 242418.01 |
| 26 | 38160.82 | 41285.10 | 34 | 92432.42 | 242218.12 |
| 27 | 38187.70 | 41319.15 | 33 | 92421.31 | 242018.51 |
| 28 | 38214.59 | 41353.21 | 32 | 92410.20 | 241819.18 |
| 29 | 38241.47 | 41387.28 | 31 | 92399.08 | 241620.13 |
| 30 | 38268.34 | 41421.36 | 30 | 92387.95 | 241421.36 |

| Minut. | 22. Grad. Sinus. | Tang. | Minut. | 67. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 38268.34 | 41421.36 | 30 | 92387.95 | 241421.36 |
| 31 | 38295.22 | 41455.44 | 29 | 92376.82 | 241222.86 |
| 32 | 38322.09 | 41489.53 | 28 | 92365.67 | 241024.65 |
| 33 | 38348.95 | 41523.63 | 27 | 92354.52 | 240826.72 |
| 34 | 38375.82 | 41557.74 | 26 | 92343.36 | 240629.05 |
| 35 | 38402.68 | 41591.86 | 25 | 92332.20 | 240431.68 |
| 36 | 38429.53 | 41625.99 | 24 | 92321.02 | 240234.57 |
| 37 | 38456.39 | 41660.12 | 23 | 92309.84 | 240037.74 |
| 38 | 38483.24 | 41694.26 | 22 | 92298.65 | 239841.18 |
| 39 | 38510.08 | 41728.41 | 21 | 92287.45 | 239644.90 |
| 40 | 38536.93 | 41762.57 | 20 | 92276.24 | 239448.89 |
| 41 | 38563.77 | 41796.74 | 19 | 92265.03 | 239253.16 |
| 42 | 38590.60 | 41830.91 | 18 | 92253.81 | 239057.69 |
| 43 | 38617.44 | 41865.09 | 17 | 92242.58 | 238862.50 |
| 44 | 38644.27 | 41899.28 | 16 | 92231.34 | 238667.58 |
| 45 | 38671.10 | 41933.48 | 15 | 92220.10 | 238472.93 |
| 46 | 38697.92 | 41967.69 | 14 | 92208.84 | 238278.55 |
| 47 | 38724.74 | 42001.91 | 13 | 92197.58 | 238084.44 |
| 48 | 38751.56 | 42036.13 | 12 | 92186.31 | 237890.60 |
| 49 | 38778.37 | 42070.36 | 11 | 92175.04 | 237697.03 |
| 50 | 38805.18 | 42104.60 | 10 | 92163.75 | 237503.72 |
| 51 | 38831.99 | 42138.85 | 9 | 92152.46 | 237310.68 |
| 52 | 38858.80 | 42173.11 | 8 | 92141.16 | 237117.91 |
| 53 | 38885.60 | 42207.38 | 7 | 92129.86 | 236925.40 |
| 54 | 38912.39 | 42241.66 | 6 | 92118.54 | 236733.16 |
| 55 | 38939.19 | 42275.94 | 5 | 92107.22 | 236541.18 |
| 56 | 38965.98 | 42310.23 | 4 | 92095.89 | 236349.46 |
| 57 | 38992.77 | 42344.53 | 3 | 92084.55 | 236158.01 |
| 58 | 39019.55 | 42378.84 | 2 | 92073.20 | 235966.83 |
| 59 | 39046.33 | 42413.16 | 1 | 92061.85 | 235775.90 |
| 60 | 39073.11 | 42447.49 | 0 | 92050.49 | 235585.24 |

| Minut. | 23. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 39073.11 | 42447.49 |
| 1 | 39099.89 | 42481.82 |
| 2 | 39126.66 | 42516.16 |
| 3 | 39153.43 | 42550.51 |
| 4 | 39180.19 | 42584.87 |
| 5 | 39206.95 | 42619.24 |
| 6 | 39233.71 | 42653.62 |
| 7 | 39260.47 | 42688.00 |
| 8 | 39287.22 | 42722.39 |
| 9 | 39313.97 | 42756.79 |
| 10 | 39340.71 | 42791.20 |
| 11 | 39367.45 | 42825.62 |
| 12 | 39394.19 | 42860.05 |
| 13 | 39420.93 | 42894.49 |
| 14 | 39447.66 | 42928.94 |
| 15 | 39474.39 | 42963.39 |
| 16 | 39501.11 | 42997.85 |
| 17 | 39527.83 | 43032.32 |
| 18 | 39554.55 | 43066.80 |
| 19 | 39581.27 | 43101.29 |
| 20 | 39607.98 | 43135.79 |
| 21 | 39634.68 | 43170.30 |
| 22 | 39661.39 | 43204.81 |
| 23 | 39688.09 | 43239.33 |
| 24 | 39714.79 | 43273.86 |
| 25 | 39741.48 | 43308.40 |
| 26 | 39768.17 | 43342.95 |
| 27 | 39794.86 | 43377.51 |
| 28 | 39821.55 | 43412.08 |
| 29 | 39848.23 | 43446.66 |
| 30 | 39874.91 | 43481.24 |

| Minut. | 66. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 92050.49 | 235585.24 |
| 59 | 92039.12 | 235394.83 |
| 58 | 92027.74 | 235204.69 |
| 57 | 92016.35 | 235014.81 |
| 56 | 92004.96 | 234825.19 |
| 55 | 91993.56 | 234635.82 |
| 54 | 91982.15 | 234446.72 |
| 53 | 91970.73 | 234257.87 |
| 52 | 91959.31 | 234069.28 |
| 51 | 91947.88 | 233880.95 |
| 50 | 91936.44 | 233692.87 |
| 49 | 91924.99 | 233505.06 |
| 48 | 91913.53 | 233317.48 |
| 47 | 91902.07 | 233130.17 |
| 46 | 91890.60 | 232943.11 |
| 45 | 91879.12 | 232756.30 |
| 44 | 91867.63 | 232569.75 |
| 43 | 91856.14 | 232383.45 |
| 42 | 91844.64 | 232197.40 |
| 41 | 91833.13 | 232011.60 |
| 40 | 91821.61 | 231826.06 |
| 39 | 91810.09 | 231640.76 |
| 38 | 91798.55 | 231455.71 |
| 37 | 91787.01 | 231270.91 |
| 36 | 91775.46 | 231086.36 |
| 35 | 91763.91 | 230902.06 |
| 34 | 91752.34 | 230718.01 |
| 33 | 91740.77 | 230534.20 |
| 32 | 91729.19 | 230350.64 |
| 31 | 91717.60 | 230167.32 |
| 30 | 91706.01 | 229984.25 |

| Minut. | 23. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 39874.91 | 43481.24 |
| 31 | 39901.58 | 43515.83 |
| 32 | 39928.25 | 43550.43 |
| 33 | 39954.92 | 43585.04 |
| 34 | 39981.58 | 43619.66 |
| 35 | 40008.25 | 43654.29 |
| 36 | 40034.90 | 43688.93 |
| 37 | 40061.56 | 43723.58 |
| 38 | 40088.21 | 43758.23 |
| 39 | 40114.86 | 43792.89 |
| 40 | 40141.50 | 43827.56 |
| 41 | 40168.14 | 43862.24 |
| 42 | 40194.78 | 43896.93 |
| 43 | 40221.41 | 43931.63 |
| 44 | 40248.04 | 43966.34 |
| 45 | 40274.67 | 44001.06 |
| 46 | 40301.29 | 44035.78 |
| 47 | 40327.91 | 44070.51 |
| 48 | 40354.53 | 44105.25 |
| 49 | 40381.14 | 44140.00 |
| 50 | 40407.75 | 44174.76 |
| 51 | 40434.36 | 44209.53 |
| 52 | 40460.96 | 44244.31 |
| 53 | 40487.56 | 44279.10 |
| 54 | 40514.16 | 44313.90 |
| 55 | 40540.75 | 44348.71 |
| 56 | 40567.34 | 44383.53 |
| 57 | 40593.93 | 44418.35 |
| 58 | 40620.51 | 44453.18 |
| 59 | 40647.09 | 44488.02 |
| 60 | 40673.66 | 44522.87 |

| Minut. | 66. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 91706.01 | 229984.25 |
| 29 | 91694.40 | 229801.43 |
| 28 | 91682.79 | 229618.85 |
| 27 | 91671.18 | 229436.51 |
| 26 | 91659.55 | 229254.42 |
| 25 | 91647.91 | 229072.57 |
| 24 | 91636.27 | 228890.96 |
| 23 | 91624.62 | 228709.59 |
| 22 | 91612.96 | 228628.46 |
| 21 | 91601.30 | 228347.58 |
| 20 | 91589.63 | 228166.93 |
| 19 | 91577.95 | 227986.53 |
| 18 | 91566.26 | 227806.36 |
| 17 | 91554.56 | 227626.43 |
| 16 | 91542.86 | 227446.74 |
| 15 | 91531.15 | 227267.29 |
| 14 | 91519.43 | 227088.07 |
| 13 | 91507.70 | 226909.09 |
| 12 | 91495.97 | 226730.35 |
| 11 | 91484.22 | 226551.84 |
| 10 | 91472.47 | 226373.57 |
| 9 | 91460.72 | 226195.53 |
| 8 | 91448.95 | 226017.73 |
| 7 | 91437.18 | 225840.16 |
| 6 | 91425.40 | 225662.83 |
| 5 | 91413.61 | 225485.72 |
| 4 | 91401.81 | 225308.85 |
| 3 | 91390.01 | 225132.21 |
| 2 | 91378.19 | 224955.80 |
| 1 | 91366.37 | 224779.62 |
| 0 | 91354.55 | 224603.68 |

| Minut. | 24. Grad. | | Minut. | 65. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 40673.66 | 44522.87 | 60 | 91354.55 | 224603.68 |
| 1 | 40700.23 | 44557.73 | 59 | 91342.71 | 224427.96 |
| 2 | 40726.81 | 44592.60 | 58 | 91330.87 | 224252.47 |
| 3 | 40753.37 | 44627.48 | 57 | 91319.02 | 224077.21 |
| 4 | 40779.93 | 44662.37 | 56 | 91307.16 | 223902.18 |
| 5 | 40806.49 | 44697.27 | 55 | 91295.29 | 223727.38 |
| 6 | 40833.05 | 44732.17 | 54 | 91283.42 | 223552.80 |
| 7 | 40859.60 | 44767.08 | 53 | 91271.54 | 223378.45 |
| 8 | 40886.15 | 44802.00 | 52 | 91259.65 | 223204.33 |
| 9 | 40912.69 | 44836.93 | 51 | 91247.75 | 223030.43 |
| 10 | 40939.23 | 44871.87 | 50 | 91235.84 | 222856.76 |
| 11 | 40965.77 | 44906.82 | 49 | 91223.93 | 222683.31 |
| 12 | 40992.30 | 44941.78 | 48 | 91212.01 | 222510.09 |
| 13 | 41018.83 | 44976.75 | 47 | 91200.08 | 222337.09 |
| 14 | 41045.36 | 45011.73 | 46 | 91188.14 | 222164.32 |
| 15 | 41071.89 | 45046.72 | 45 | 91176.20 | 221991.77 |
| 16 | 41098.41 | 45081.72 | 44 | 91164.25 | 221819.44 |
| 17 | 41124.92 | 45116.73 | 43 | 91152.29 | 221647.33 |
| 18 | 41151.44 | 45151.74 | 42 | 91140.33 | 221475.45 |
| 19 | 41177.95 | 45186.76 | 41 | 91128.35 | 221303.79 |
| 20 | 41204.45 | 45221.79 | 40 | 91116.37 | 221132.34 |
| 21 | 41230.96 | 45256.83 | 39 | 91104.38 | 220961.12 |
| 22 | 41257.45 | 45291.88 | 38 | 91092.38 | 220790.12 |
| 23 | 41283.95 | 45326.94 | 37 | 91080.38 | 220619.34 |
| 24 | 41310.44 | 45362.01 | 36 | 91068.37 | 220448.78 |
| 25 | 41336.93 | 45397.09 | 35 | 91056.35 | 220278.43 |
| 26 | 41363.42 | 45432.18 | 34 | 91044.32 | 220108.31 |
| 27 | 41389.90 | 45467.28 | 33 | 91032.28 | 219938.40 |
| 28 | 41416.38 | 45502.39 | 32 | 91020.24 | 219768.71 |
| 29 | 41442.85 | 45537.51 | 31 | 91008.19 | 219599.23 |
| 30 | 41469.32 | 45572.64 | 30 | 90996.13 | 219429.97 |

| Minut. | 24. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 41469.32 | 45572.64 |
| 31 | 41495.79 | 45607.77 |
| 32 | 41522.26 | 45642.91 |
| 33 | 41548.72 | 45678.06 |
| 34 | 41575.17 | 45713.22 |
| 35 | 41601.63 | 45748.39 |
| 36 | 41628.08 | 45783.57 |
| 37 | 41654.53 | 45818.76 |
| 38 | 41680.97 | 45853.96 |
| 39 | 41707.41 | 45889.17 |
| 40 | 41733.85 | 45924.39 |
| 41 | 41760.28 | 45959.62 |
| 42 | 41786.71 | 45994.86 |
| 43 | 41813.13 | 46030.11 |
| 44 | 41839.55 | 46065.37 |
| 45 | 41865.97 | 46100.64 |
| 46 | 41892.39 | 46135.91 |
| 47 | 41918.80 | 46171.19 |
| 48 | 41945.21 | 46206.48 |
| 49 | 41971.61 | 46241.78 |
| 50 | 41998.01 | 46277.09 |
| 51 | 42024.41 | 46312.42 |
| 52 | 42050.80 | 46347.76 |
| 53 | 42077.19 | 46383.11 |
| 54 | 42103.58 | 46418.46 |
| 55 | 42129.96 | 46453.82 |
| 56 | 42156.34 | 46489.19 |
| 57 | 42182.72 | 46524.57 |
| 58 | 42209.09 | 46559.96 |
| 59 | 42235.46 | 46595.36 |
| 60 | 42261.83 | 46630.77 |

| Minut. | 65. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 90996.13 | 219429.97 |
| 29 | 90984.06 | 219260.93 |
| 28 | 90971.99 | 219092.10 |
| 27 | 90959.90 | 218923.49 |
| 26 | 90947.81 | 218755.10 |
| 25 | 90935.71 | 218586.91 |
| 24 | 90923.61 | 218418.94 |
| 23 | 90911.50 | 218251.19 |
| 22 | 90899.38 | 218083.64 |
| 21 | 90887.25 | 217916.31 |
| 20 | 90875.11 | 217749.20 |
| 19 | 90862.97 | 217582.29 |
| 18 | 90850.82 | 217415.59 |
| 17 | 90838.66 | 217249.11 |
| 16 | 90826.49 | 217082.83 |
| 15 | 90814.32 | 216916.77 |
| 14 | 90802.14 | 216750.91 |
| 13 | 90789.95 | 216585.27 |
| 12 | 90777.75 | 216419.83 |
| 11 | 90765.54 | 216254.60 |
| 10 | 90753.33 | 216089.58 |
| 9 | 90741.11 | 215924.76 |
| 8 | 90728.88 | 215760.15 |
| 7 | 90716.64 | 215595.75 |
| 6 | 90704.40 | 215431.56 |
| 5 | 90692.15 | 215267.57 |
| 4 | 90679.89 | 215103.78 |
| 3 | 90667.62 | 214940.20 |
| 2 | 90655.35 | 214776.83 |
| 1 | 90643.07 | 214613.66 |
| 0 | 90630.78 | 214450.69 |

| Minut. | 25. Grad. | | Minut. | 64. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 42261.83 | 46630.77 | 60 | 90630.78 | 214450.69 |
| 1 | 42288.19 | 46666.19 | 59 | 90618.48 | 214287.93 |
| 2 | 42314.55 | 46701.62 | 58 | 90606.18 | 214125.37 |
| 3 | 42340.90 | 46737.06 | 57 | 90593.86 | 213963.01 |
| 4 | 42367.25 | 46772.51 | 56 | 90581.54 | 213800.85 |
| 5 | 42393.60 | 46807.97 | 55 | 90569.21 | 213638.89 |
| 6 | 42419.94 | 46843.43 | 54 | 90556.88 | 213477.14 |
| 7 | 42446.28 | 46878.90 | 53 | 90544.54 | 213315.59 |
| 8 | 42472.62 | 46914.38 | 52 | 90532.19 | 213154.23 |
| 9 | 42498.95 | 46949.88 | 51 | 90519.83 | 212993.08 |
| 10 | 42525.28 | 46985.39 | 50 | 90507.46 | 212832.13 |
| 11 | 42551.61 | 47020.90 | 49 | 90495.09 | 212671.37 |
| 12 | 42577.93 | 47056.43 | 48 | 90482.71 | 212510.82 |
| 13 | 42604.25 | 47091.96 | 47 | 90470.32 | 212350.46 |
| 14 | 42630.56 | 47127.51 | 46 | 90457.92 | 212190.30 |
| 15 | 42656.87 | 47163.06 | 45 | 90445.51 | 212030.34 |
| 16 | 42683.18 | 47198.63 | 44 | 90433.10 | 211870.57 |
| 17 | 42709.49 | 47234.20 | 43 | 90420.68 | 211711.01 |
| 18 | 42735.79 | 47269.78 | 42 | 90408.25 | 211551.64 |
| 19 | 42762.09 | 47305.38 | 41 | 90395.82 | 211392.46 |
| 20 | 42788.38 | 47340.98 | 40 | 90383.38 | 211233.48 |
| 21 | 42814.67 | 47376.59 | 39 | 90370.93 | 211074.70 |
| 22 | 42840.95 | 47412.22 | 38 | 90358.47 | 210916.11 |
| 23 | 42867.23 | 47447.85 | 37 | 90346.00 | 210757.71 |
| 24 | 42893.51 | 47483.49 | 36 | 90333.53 | 210599.51 |
| 25 | 42919.79 | 47519.14 | 35 | 90321.05 | 210441.50 |
| 26 | 42946.06 | 47554.81 | 34 | 90308.56 | 210283.69 |
| 27 | 42972.33 | 47590.48 | 33 | 90296.06 | 210126.07 |
| 28 | 42998.59 | 47626.16 | 32 | 90283.56 | 209968.64 |
| 29 | 43024.85 | 47661.85 | 31 | 90271.05 | 209811.40 |
| 30 | 43051.11 | 47697.55 | 30 | 90258.53 | 209654.36 |

| Minut. | 25. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 43051.11 | 47697.55 |
| 31 | 43077.36 | 47733.26 |
| 32 | 43103.61 | 47768.99 |
| 33 | 43129.86 | 47804.72 |
| 34 | 43156.10 | 47840.46 |
| 35 | 43182.34 | 47876.21 |
| 36 | 43208.57 | 47911.97 |
| 37 | 43234.81 | 47947.74 |
| 38 | 43261.03 | 47983.52 |
| 39 | 43287.26 | 48019.32 |
| 40 | 43313.48 | 48055.12 |
| 41 | 43339.70 | 48090.93 |
| 42 | 43365.91 | 48126.75 |
| 43 | 43392.12 | 48162.58 |
| 44 | 43418.32 | 48198.42 |
| 45 | 43444.53 | 48234.27 |
| 46 | 43470.72 | 48270.14 |
| 47 | 43496.92 | 48306.01 |
| 48 | 43523.11 | 48341.89 |
| 49 | 43549.30 | 48377.78 |
| 50 | 43575.48 | 48413.68 |
| 51 | 43601.66 | 48449.59 |
| 52 | 43627.84 | 48485.52 |
| 53 | 43654.01 | 48521.45 |
| 54 | 43680.18 | 48557.39 |
| 55 | 43706.34 | 48593.34 |
| 56 | 43732.51 | 48629.31 |
| 57 | 43758.66 | 48665.28 |
| 58 | 43784.82 | 48701.26 |
| 59 | 43810.97 | 48737.26 |
| 60 | 43837.11 | 48773.26 |

| Minut. | 64. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 90258.53 | 209654.36 |
| 29 | 90246.00 | 209497.51 |
| 28 | 90233.47 | 209340.84 |
| 27 | 90220.93 | 209184.37 |
| 26 | 90208.38 | 209028.09 |
| 25 | 90195.82 | 208872.00 |
| 24 | 90183.25 | 208716.10 |
| 23 | 90170.68 | 208560.39 |
| 22 | 90158.10 | 208404.86 |
| 21 | 90145.51 | 208249.53 |
| 20 | 90132.92 | 208094.38 |
| 19 | 90120.31 | 207939.42 |
| 18 | 90107.70 | 207784.65 |
| 17 | 90095.08 | 207630.07 |
| 16 | 90082.45 | 207475.67 |
| 15 | 90069.82 | 207321.46 |
| 14 | 90057.18 | 207167.43 |
| 13 | 90044.53 | 207013.59 |
| 12 | 90031.87 | 206859.93 |
| 11 | 90019.21 | 206706.46 |
| 10 | 90006.54 | 206553.18 |
| 9 | 89993.86 | 206400.08 |
| 8 | 89981.17 | 206247.16 |
| 7 | 89968.48 | 206094.44 |
| 6 | 89955.78 | 205941.87 |
| 5 | 89943.07 | 205789.50 |
| 4 | 89930.35 | 205637.32 |
| 3 | 89917.63 | 205485.31 |
| 2 | 89904.89 | 205333.49 |
| 1 | 89892.15 | 205181.84 |
| 0 | 89879.40 | 205030.38 |

| Minut. | 26. Grad. | | Minut. | 63. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 43837.11 | 48773.26 | 60 | 89879.40 | 205030.38 |
| 1 | 43863.26 | 48809.27 | 59 | 89866.65 | 204879.10 |
| 2 | 43889.40 | 48845.30 | 58 | 89853.89 | 204728.00 |
| 3 | 43915.53 | 48881.33 | 57 | 89841.12 | 204577.08 |
| 4 | 43941.66 | 48917.37 | 56 | 89828.34 | 204426.34 |
| 5 | 43967.79 | 48953.43 | 55 | 89815.55 | 204275.78 |
| 6 | 43993.92 | 48989.49 | 54 | 89802.76 | 204125.40 |
| 7 | 44020.04 | 49025.57 | 53 | 89789.96 | 203975.19 |
| 8 | 44046.15 | 49061.66 | 52 | 89777.15 | 203825.17 |
| 9 | 44072.27 | 49097.75 | 51 | 89764.33 | 203675.32 |
| 10 | 44098.38 | 49133.86 | 50 | 89751.51 | 203525.65 |
| 11 | 44124.48 | 49169.97 | 49 | 89738.68 | 203376.15 |
| 12 | 44150.58 | 49206.10 | 48 | 89725.84 | 203226.83 |
| 13 | 44176.68 | 49242.24 | 47 | 89712.99 | 203077.69 |
| 14 | 44202.78 | 49278.38 | 46 | 89700.14 | 202928.73 |
| 15 | 44228.87 | 49314.54 | 45 | 89687.27 | 202779.94 |
| 16 | 44254.96 | 49350.71 | 44 | 89674.40 | 202631.33 |
| 17 | 44281.04 | 49386.89 | 43 | 89661.52 | 202482.89 |
| 18 | 44307.12 | 49423.08 | 42 | 89648.64 | 202334.62 |
| 19 | 44333.19 | 49459.28 | 41 | 89635.75 | 202186.53 |
| 20 | 44359.27 | 49495.49 | 40 | 89622.85 | 202038.62 |
| 21 | 44385.34 | 49531.71 | 39 | 89609.94 | 201890.88 |
| 22 | 44411.40 | 49567.94 | 38 | 89597.03 | 201743.31 |
| 23 | 44437.46 | 49604.18 | 37 | 89584.11 | 201595.92 |
| 24 | 44463.52 | 49640.43 | 36 | 89571.18 | 201448.69 |
| 25 | 44489.57 | 49676.69 | 35 | 89558.24 | 201301.64 |
| 26 | 44515.62 | 49712.97 | 34 | 89545.29 | 201154.77 |
| 27 | 44541.67 | 49749.25 | 33 | 89532.34 | 201008.06 |
| 28 | 44567.71 | 49785.54 | 32 | 89519.38 | 200861.53 |
| 29 | 44593.75 | 49821.85 | 31 | 89506.41 | 200715.16 |
| 30 | 44619.78 | 49858.16 | 30 | 89493.44 | 200568.97 |

| Minut. | 26. Grad. | | Minut. | 63. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 44619.78 | 49858.16 | 30 | 89493.44 | 200568.97 |
| 31 | 44645.81 | 49894.49 | 29 | 89480.45 | 200422.95 |
| 32 | 44671.84 | 49930.82 | 28 | 89467.46 | 200277.10 |
| 33 | 44697.86 | 49967.17 | 27 | 89454.46 | 200131.42 |
| 34 | 44723.88 | 50003.52 | 26 | 89441.46 | 199985.90 |
| 35 | 44749.90 | 50039.89 | 25 | 89428.44 | 199840.56 |
| 36 | 44775.91 | 50076.27 | 24 | 89415.42 | 199695.39 |
| 37 | 44801.92 | 50112.66 | 23 | 89402.39 | 199550.38 |
| 38 | 44827.92 | 50149.06 | 22 | 89389.36 | 199405.54 |
| 39 | 44853.92 | 50185.47 | 21 | 89376.32 | 199260.87 |
| 40 | 44879.92 | 50221.89 | 20 | 89363.26 | 199116.37 |
| 41 | 44905.91 | 50258.32 | 19 | 89350.21 | 198972.04 |
| 42 | 44931.90 | 50294.76 | 18 | 89337.14 | 198827.87 |
| 43 | 44957.89 | 50331.21 | 17 | 89324.06 | 198683.87 |
| 44 | 44983.87 | 50367.67 | 16 | 89310.98 | 198540.03 |
| 45 | 45009.85 | 50404.15 | 15 | 89297.88 | 198396.36 |
| 46 | 45035.82 | 50440.63 | 14 | 89284.80 | 198252.86 |
| 47 | 45061.79 | 50477.13 | 13 | 89271.69 | 198109.52 |
| 48 | 45087.76 | 50513.63 | 12 | 89258.58 | 197966.35 |
| 49 | 45113.72 | 50550.15 | 11 | 89245.46 | 197823.34 |
| 50 | 45139.68 | 50586.68 | 10 | 89232.34 | 197680.50 |
| 51 | 45165.63 | 50623.22 | 9 | 89219.20 | 197537.82 |
| 52 | 45191.58 | 50659.77 | 8 | 89206.06 | 197395.31 |
| 53 | 45217.53 | 50696.33 | 7 | 89192.91 | 197252.96 |
| 54 | 45243.47 | 50732.90 | 6 | 89179.75 | 197110.77 |
| 55 | 45269.41 | 50769.48 | 5 | 89166.59 | 196968.74 |
| 56 | 45295.35 | 50806.07 | 4 | 89153.42 | 196826.88 |
| 57 | 45321.28 | 50842.67 | 3 | 89140.24 | 196685.18 |
| 58 | 45347.21 | 50879.28 | 2 | 89127.05 | 196543.64 |
| 59 | 45373.13 | 50915.91 | 1 | 89113.85 | 196402.27 |
| 60 | 45399.05 | 50952.54 | 0 | 89100.65 | 196261.05 |

| Minut. | 27. Grad. | | Minut. | 62. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 45399.05 | 50952.54 | 60 | 89100.65 | 196261.05 |
| 1 | 45424.97 | 50989.19 | 59 | 89087.44 | 196120.00 |
| 2 | 45450.88 | 51025.85 | 58 | 89074.22 | 195979.10 |
| 3 | 45476.79 | 51062.52 | 57 | 89061.00 | 195838.37 |
| 4 | 45502.69 | 51099.19 | 56 | 89047.77 | 195697.80 |
| 5 | 45528.59 | 51135.88 | 55 | 89034.53 | 195557.39 |
| 6 | 45554.49 | 51172.59 | 54 | 89021.28 | 195417.13 |
| 7 | 45580.38 | 51209.30 | 53 | 89008.02 | 195277.04 |
| 8 | 45606.27 | 51246.02 | 52 | 88994.76 | 195137.11 |
| 9 | 45632.16 | 51282.75 | 51 | 88981.49 | 194997.33 |
| 10 | 45658.04 | 51319.50 | 50 | 88968.21 | 194857.71 |
| 11 | 45683.92 | 51356.25 | 49 | 88954.93 | 194718.26 |
| 12 | 45709.79 | 51393.02 | 48 | 88941.64 | 194578.96 |
| 13 | 45735.66 | 51429.80 | 47 | 88928.34 | 194439.81 |
| 14 | 45761.53 | 51466.58 | 46 | 88915.03 | 194300.83 |
| 15 | 45787.39 | 51503.38 | 45 | 88901.71 | 194162.00 |
| 16 | 45813.25 | 51540.19 | 44 | 88888.39 | 194023.33 |
| 17 | 45839.10 | 51577.02 | 43 | 88875.06 | 193884.81 |
| 18 | 45864.95 | 51613.85 | 42 | 88861.72 | 193746.45 |
| 19 | 45890.80 | 51650.69 | 41 | 88848.37 | 193608.25 |
| 20 | 45916.64 | 51687.55 | 40 | 88835.02 | 193470.20 |
| 21 | 45942.48 | 51724.41 | 39 | 88821.66 | 193332.31 |
| 22 | 45968.32 | 51761.29 | 38 | 88808.30 | 193194.57 |
| 23 | 45994.15 | 51798.18 | 37 | 88794.92 | 193056.98 |
| 24 | 46019.98 | 51835.08 | 36 | 88781.54 | 192919.56 |
| 25 | 46045.80 | 51871.99 | 35 | 88768.15 | 192782.28 |
| 26 | 46071.62 | 51908.91 | 34 | 88754.75 | 192645.16 |
| 27 | 46097.44 | 51945.84 | 33 | 88741.34 | 192508.19 |
| 28 | 46123.25 | 51982.78 | 32 | 88727.93 | 192371.38 |
| 29 | 46149.06 | 52019.74 | 31 | 88714.51 | 192234.72 |
| 30 | 46174.86 | 52056.70 | 30 | 88701.08 | 192098.21 |

| Minut. | 27. Grad. Sinus. | Tang. | Minut. | 62. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 46174.86 | 52056.70 | 30 | 88701.08 | 192098.21 |
| 31 | 46200.66 | 52093.68 | 29 | 88687.64 | 191961.86 |
| 32 | 46226.46 | 52130.67 | 28 | 88674.20 | 191825.65 |
| 33 | 46252.25 | 52167.67 | 27 | 88660.75 | 191689.60 |
| 34 | 46278.04 | 52204.68 | 26 | 88647.30 | 191553.70 |
| 35 | 46303.82 | 52241.70 | 25 | 88633.83 | 191417.95 |
| 36 | 46329.60 | 52278.74 | 24 | 88620.36 | 191282.36 |
| 37 | 46355.38 | 52315.78 | 23 | 88606.88 | 191146.91 |
| 38 | 46381.15 | 52352.84 | 22 | 88593.39 | 191011.62 |
| 39 | 46406.92 | 52389.90 | 21 | 88579.89 | 190876.47 |
| 40 | 46432.69 | 52426.98 | 20 | 88566.39 | 190741.47 |
| 41 | 46458.45 | 52464.07 | 19 | 88552.88 | 190606.63 |
| 42 | 46484.20 | 52501.17 | 18 | 88539.36 | 190471.93 |
| 43 | 46509.96 | 52538.29 | 17 | 88525.83 | 190337.38 |
| 44 | 46535.71 | 52575.41 | 16 | 88512.30 | 190202.99 |
| 45 | 46561.45 | 52612.54 | 15 | 88498.76 | 190068.74 |
| 46 | 46587.19 | 52649.69 | 14 | 88485.22 | 189934.64 |
| 47 | 46612.93 | 52686.85 | 13 | 88471.66 | 189800.68 |
| 48 | 46638.66 | 52724.02 | 12 | 88458.10 | 189666.88 |
| 49 | 46664.39 | 52761.20 | 11 | 88444.53 | 189533.22 |
| 50 | 46690.12 | 52798.39 | 10 | 88430.95 | 189399.71 |
| 51 | 46715.84 | 52835.59 | 9 | 88417.36 | 189266.34 |
| 52 | 46741.56 | 52872.81 | 8 | 88403.77 | 189133.13 |
| 53 | 46767.27 | 52910.04 | 7 | 88390.17 | 189000.06 |
| 54 | 46792.98 | 52947.27 | 6 | 88376.56 | 188867.13 |
| 55 | 46818.69 | 52984.52 | 5 | 88362.95 | 188734.36 |
| 56 | 46844.39 | 53021.78 | 4 | 88349.32 | 188601.72 |
| 57 | 46870.09 | 53059.06 | 3 | 88335.69 | 188469.24 |
| 58 | 46895.78 | 53096.34 | 2 | 88322.06 | 188336.90 |
| 59 | 46921.47 | 53133.64 | 1 | 88308.41 | 188204.70 |
| 60 | 46947.16 | 53170.94 | 0 | 88294.76 | 188072.65 |

| Minut. | 28. Grad. | | Minut. | 61. Grad | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 46947.16 | 53170.94 | 60 | 88294.76 | 188072.65 |
| 1 | 46972.84 | 53208.26 | 59 | 88281.10 | 187940.74 |
| 2 | 46998.52 | 53245.59 | 58 | 88267.43 | 187808.98 |
| 3 | 47024.19 | 53282.93 | 57 | 88253.76 | 187677.36 |
| 4 | 47049.86 | 53320.29 | 56 | 88240.07 | 187545.88 |
| 5 | 47075.53 | 53357.65 | 55 | 88226.38 | 187414.55 |
| 6 | 47101.19 | 53395.03 | 54 | 88212.69 | 187283.36 |
| 7 | 47126.85 | 53432.42 | 53 | 88198.98 | 187152.31 |
| 8 | 47152.50 | 53469.82 | 52 | 88185.27 | 187021.41 |
| 9 | 47178.15 | 53507.23 | 51 | 88171.55 | 186890.64 |
| 10 | 47203.80 | 53544.65 | 50 | 88157.82 | 186760.03 |
| 11 | 47229.44 | 53582.08 | 49 | 88144.09 | 186629.55 |
| 12 | 47255.08 | 53619.53 | 48 | 88130.35 | 186499.21 |
| 13 | 47280.71 | 53656.99 | 47 | 88116.60 | 186369.02 |
| 14 | 47306.34 | 53694.46 | 46 | 88102.84 | 186238.96 |
| 15 | 47331.97 | 53731.94 | 45 | 88089.07 | 186109.05 |
| 16 | 47357.59 | 53769.43 | 44 | 88075.30 | 185979.28 |
| 17 | 47383.21 | 53806.94 | 43 | 88061.52 | 185849.65 |
| 18 | 47408.82 | 53844.45 | 42 | 88047.73 | 185720.15 |
| 19 | 47434.43 | 53881.98 | 41 | 88033.94 | 185590.80 |
| 20 | 47460.04 | 53919.52 | 40 | 88020.14 | 185461.59 |
| 21 | 47485.64 | 53957.07 | 39 | 88006.33 | 185332.52 |
| 22 | 47511.24 | 53994.64 | 38 | 87992.51 | 185203.58 |
| 23 | 47536.83 | 54032.21 | 37 | 87978.69 | 185074.79 |
| 24 | 47562.42 | 54069.80 | 36 | 87964.86 | 184946.13 |
| 25 | 47588.01 | 54107.40 | 35 | 87951.02 | 184817.61 |
| 26 | 47613.59 | 54145.01 | 34 | 87937.17 | 184689.23 |
| 27 | 47639.17 | 54182.63 | 33 | 87923.32 | 184560.99 |
| 28 | 47664.74 | 54220.27 | 32 | 87909.46 | 184432.89 |
| 29 | 47690.31 | 54257.91 | 31 | 87895.59 | 184304.92 |
| 30 | 47715.88 | 54295.57 | 30 | 87881.71 | 184177.09 |

| Minut. | 28. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 47715.88 | 54295.57 |
| 31 | 47741.44 | 54333.24 |
| 32 | 47767.00 | 54370.92 |
| 33 | 47792.55 | 54408.62 |
| 34 | 47818.10 | 54446.32 |
| 35 | 47843.64 | 54484.04 |
| 36 | 47869.19 | 54521.77 |
| 37 | 47894.72 | 54559.51 |
| 38 | 47920.26 | 54597.26 |
| 39 | 47945.79 | [illegible]5.03 |
| 40 | 47971.31 | 54672.81 |
| 41 | 47996.83 | 54710.60 |
| 42 | 48022.35 | 54748.40 |
| 43 | 48047.86 | 54786.21 |
| 44 | 48073.37 | 54824.04 |
| 45 | 48098.88 | 54861.88 |
| 46 | 48124.38 | 54899.73 |
| 47 | 48149.88 | 54937.59 |
| 48 | 48175.37 | 54975.46 |
| 49 | 48200.86 | 55013.35 |
| 50 | 48226.34 | 55051.25 |
| 51 | 48251.82 | 55089.16 |
| 52 | 48277.30 | 55127.08 |
| 53 | 48302.77 | 55165.02 |
| 54 | 48328.24 | 55202.97 |
| 55 | 48353.70 | 55240.93 |
| 56 | 48379.16 | 55278.90 |
| 57 | 48404.62 | 55316.88 |
| 58 | 48430.07 | 55354.88 |
| 59 | 48455.52 | 55392.88 |
| 60 | 48480.96 | 55430.90 |

| Minut. | 61. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 87881.71 | 184177.09 |
| 29 | 87867.83 | 184049.39 |
| 28 | 87853.94 | 183921.84 |
| 27 | 87840.04 | 183794.42 |
| 26 | 87826.13 | 183667.13 |
| 25 | 87812.22 | 183539.99 |
| 24 | 87798.30 | 183412.97 |
| 23 | 87784.37 | 183286.10 |
| 22 | 87770.43 | 183159.36 |
| 21 | 87756.49 | 183032.75 |
| 20 | 87742.54 | 182906.28 |
| 19 | 87728.58 | 182779.94 |
| 18 | 87714.62 | 182653.74 |
| 17 | 87700.64 | 182527.67 |
| 16 | 87686.66 | 182401.73 |
| 15 | 87672.68 | 182275.93 |
| 14 | 87658.68 | 182150.26 |
| 13 | 87644.68 | 182024.73 |
| 12 | 87630.67 | 181899.32 |
| 11 | 87616.65 | 181774.05 |
| 10 | 87602.62 | 181648.92 |
| 9 | 87588.59 | 181523.91 |
| 8 | 87574.55 | 181399.04 |
| 7 | 87560.51 | 181274.30 |
| 6 | 87546.45 | 181149.69 |
| 5 | 87532.39 | 181025.21 |
| 4 | 87518.32 | 180900.86 |
| 3 | 87504.24 | 180776.64 |
| 2 | 87490.16 | 180652.56 |
| 1 | 87476.07 | 180528.60 |
| 0 | 87461.97 | 180404.78 |

| Minut. | 29. Grad. | | Minut. | 60. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 48480.96 | 55430.90 | 60 | 87461.97 | 180404.78 |
| 1 | 48506.40 | 55468.94 | 59 | 87447.86 | 180281.08 |
| 2 | 48531.84 | 55506.98 | 58 | 87433.75 | 180157.51 |
| 3 | 48557.27 | 55545.04 | 57 | 87419.63 | 180034.08 |
| 4 | 48582.70 | 55583.11 | 56 | 87405.50 | 179910.77 |
| 5 | 48608.12 | 55621.19 | 55 | 87391.37 | 179787.59 |
| 6 | 48633.54 | 55659.29 | 54 | 87377.22 | 179664.54 |
| 7 | 48658.95 | 55697.39 | 53 | 87363.07 | 179541.62 |
| 8 | 48684.36 | 55735.51 | 52 | 87348.91 | 179418.83 |
| 9 | 48709.77 | 55773.64 | 51 | 87334.75 | 179296.16 |
| 10 | 48735.17 | 55811.79 | 50 | 87320.58 | 179173.62 |
| 11 | 48760.57 | 55849.94 | 49 | 87306.40 | 179051.21 |
| 12 | 48785.97 | 55888.11 | 48 | 87292.21 | 178928.93 |
| 13 | 48811.36 | 55926.29 | 47 | 87278.01 | 178806.78 |
| 14 | 48836.74 | 55964.48 | 46 | 87263.81 | 178684.75 |
| 15 | 48862.12 | 56002.69 | 45 | 87249.60 | 178562.85 |
| 16 | 48887.50 | 56040.91 | 44 | 87235.38 | 178441.07 |
| 17 | 48912.88 | 56079.14 | 43 | 87221.16 | 178319.43 |
| 18 | 48938.24 | 56117.38 | 42 | 87206.93 | 178197.90 |
| 19 | 48963.61 | 56155.64 | 41 | 87192.69 | 178076.51 |
| 20 | 48988.97 | 56193.91 | 40 | 87178.44 | 177955.24 |
| 21 | 49014.33 | 56232.19 | 39 | 87164.19 | 177834.09 |
| 22 | 49039.68 | 56270.48 | 38 | 87149.93 | 177713.07 |
| 23 | 49065.03 | 56308.79 | 37 | 87135.66 | 177592.18 |
| 24 | 49090.37 | 56347.10 | 36 | 87121.38 | 177471.41 |
| 25 | 49115.72 | 56385.43 | 35 | 87107.10 | 177350.76 |
| 26 | 49141.05 | 56423.78 | 34 | 87092.81 | 177230.24 |
| 27 | 49166.38 | 56462.13 | 33 | 87078.51 | 177109.85 |
| 28 | 49191.71 | 56500.50 | 32 | 87064.20 | 176989.58 |
| 29 | 49217.04 | 56538.88 | 31 | 87049.89 | 176869.43 |
| 30 | 49242.36 | 56577.28 | 30 | 87035.57 | 176749.40 |

| Minut. | 29. Grad. | | Minut. | 60. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 49242.36 | 56577.28 | 30 | 87035.57 | 176749.40 |
| 31 | 49267.67 | 56615.68 | 29 | 87021.24 | 176629.50 |
| 32 | 49292.98 | 56654.10 | 28 | 87006.91 | 176509.72 |
| 33 | 49318.29 | 56692.53 | 27 | 86992.56 | 176390.07 |
| 34 | 49343.59 | 56730.98 | 26 | 86978.21 | 176270.53 |
| 35 | 49368.89 | 56769.44 | 25 | 86963.86 | 176151.12 |
| 36 | 49394.19 | 56807.91 | 24 | 86949.49 | 176031.83 |
| 37 | 49419.48 | 56846.39 | 23 | 86935.12 | 175912.67 |
| 38 | 49444.76 | 56884.88 | 22 | 86920.74 | 175793.62 |
| 39 | 49470.05 | 56923.39 | 21 | 86906.35 | 175674.70 |
| 40 | 49495.33 | 56961.91 | 20 | 86891.96 | 175555.90 |
| 41 | 49520.60 | 57000.45 | 19 | 86877.56 | 175437.22 |
| 42 | 49545.87 | 57038.99 | 18 | 86863.15 | 175318.66 |
| 43 | 49571.13 | 57077.55 | 17 | 86848.73 | 175200.23 |
| 44 | 49596.39 | 57116.12 | 16 | 86834.31 | 175081.91 |
| 45 | 49621.65 | 57154.71 | 15 | 86819.88 | 174963.71 |
| 46 | 49646.90 | 57193.31 | 14 | 86805.44 | 174845.64 |
| 47 | 49672.15 | 57231.92 | 13 | 86791.00 | 174727.68 |
| 48 | 49697.40 | 57270.54 | 12 | 86776.55 | 174609.84 |
| 49 | 49722.64 | 57309.18 | 11 | 86762.09 | 174492.13 |
| 50 | 49747.87 | 57347.83 | 10 | 86747.62 | 174374.53 |
| 51 | 49773.10 | 57386.49 | 9 | 86733.14 | 174257.05 |
| 52 | 49798.33 | 57425.16 | 8 | 86718.66 | 174139.69 |
| 53 | 49823.55 | 57463.85 | 7 | 86704.17 | 174022.45 |
| 54 | 49848.77 | 57502.55 | 6 | 86689.67 | 173905.33 |
| 55 | 49873.99 | 57541.26 | 5 | 86675.17 | 173788.33 |
| 56 | 49899.20 | 57579.99 | 4 | 86660.66 | 173671.44 |
| 57 | 49924.41 | 57618.73 | 3 | 86646.14 | 173554.68 |
| 58 | 49949.61 | 57657.48 | 2 | 86631. 1 | 173438.03 |
| 59 | 49974.81 | 57696.25 | 1 | 86617.08 | 173321.49 |
| 60 | 50000.00 | 57735.03 | 0 | 86602.54 | 173205.08 |

| Minut. | 30. Grad. | | Minut. | 59. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 50000.00 | 57735.03 | 60 | 86602.54 | 173205.08 |
| 1 | 50025.19 | 57773.82 | 59 | 86587.99 | 173088.78 |
| 2 | 50050.37 | 57812.62 | 58 | 86573.44 | 172972.60 |
| 3 | 50075.56 | 57851.44 | 57 | 86558.87 | 172856.54 |
| 4 | 50100.73 | 57890.27 | 56 | 86544.30 | 172740.60 |
| 5 | 50125.91 | 57929.11 | 55 | 86529.73 | 172624.77 |
| 6 | 50151.07 | 57967.97 | 54 | 86515.14 | 172509.05 |
| 7 | 50176.24 | 58006.84 | 53 | 86500.55 | 172393.45 |
| 8 | 50201.40 | 58045.73 | 52 | 86485.95 | 172277.97 |
| 9 | 50226.55 | 58084.62 | 51 | 86471.34 | 172162.61 |
| 10 | 50251.70 | 58123.53 | 50 | 86456.73 | 172047.36 |
| 11 | 50276.85 | 58162.45 | 49 | 86442.11 | 171932.22 |
| 12 | 50301.99 | 58201.39 | 48 | 86427.48 | 171817.20 |
| 13 | 50327.13 | 58240.34 | 47 | 86412.84 | 171702.30 |
| 14 | 50352.27 | 58279.30 | 46 | 86398.20 | 171587.51 |
| 15 | 50377.40 | 58318.28 | 45 | 86383.55 | 171472.83 |
| 16 | 50402.52 | 58357.27 | 44 | 86368.89 | 171358.27 |
| 17 | 50427.65 | 58396.27 | 43 | 86354.23 | 171243.82 |
| 18 | 50452.76 | 58435.28 | 42 | 86339.56 | 171129.49 |
| 19 | 50477.88 | 58474.31 | 41 | 86324.88 | 171015.27 |
| 20 | 50502.98 | 58513.35 | 40 | 86310.19 | 170901.16 |
| 21 | 50528.09 | 58552.41 | 39 | 86295.49 | 170787.17 |
| 22 | 50553.19 | 58591.48 | 38 | 86280.79 | 170673.29 |
| 23 | 50578.28 | 58630.56 | 37 | 86266.08 | 170559.53 |
| 24 | 50603.38 | 58669.65 | 36 | 86251.37 | 170445.87 |
| 25 | 50628.46 | 58708.76 | 35 | 86236.64 | 170332.33 |
| 26 | 50653.55 | 58747.88 | 34 | 86221.91 | 170218.90 |
| 27 | 50678.63 | 58787.02 | 33 | 86207.17 | 170105.59 |
| 28 | 50703.70 | 58826.17 | 32 | 86192.43 | 169992.38 |
| 29 | 50728.77 | 58865.33 | 31 | 86177.68 | 169879.29 |
| 30 | 50753.84 | 58904.50 | 30 | 86162.92 | 169766.31 |

| Minut. | 30. Grad. Sinus. | Tang. | Minut. | 59. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 50753.84 | 58904.50 | 30 | 86162.92 | 169766.31 |
| 31 | 50778.90 | 58943.69 | 29 | 86148.15 | 169653.44 |
| 32 | 50803.96 | 58982.89 | 28 | 86133.37 | 169540.69 |
| 33 | 50829.01 | 59022.11 | 27 | 86118.59 | 169428.04 |
| 34 | 50854.06 | 59061.34 | 26 | 86103.80 | 169315.50 |
| 35 | 50879.10 | 59100.58 | 25 | 86089.00 | 169203.08 |
| 36 | 50904.14 | 59139.83 | 24 | 86074.20 | 169090.77 |
| 37 | 50929.18 | 59179.10 | 23 | 86059.39 | 168978.56 |
| 38 | 50954.21 | 59218.39 | 22 | 86044.57 | 168866.47 |
| 39 | 50979.24 | 59257.68 | 21 | 86029.75 | 168754.49 |
| 40 | 51004.26 | 59296.99 | 20 | 86014.91 | 168642.61 |
| 41 | 51029.28 | 59336.32 | 19 | 86000.07 | 168530.85 |
| 42 | 51054.29 | 59375.66 | 18 | 85985.23 | 168419.19 |
| 43 | 51079.30 | 59415.01 | 17 | 85970.37 | 168307.65 |
| 44 | 51104.31 | 59454.37 | 16 | 85955.51 | 168196.21 |
| 45 | 51129.31 | 59493.75 | 15 | 85940.64 | 168084.89 |
| 46 | 51154.31 | 59533.14 | 14 | 85925.76 | 167973.67 |
| 47 | 51179.30 | 59572.54 | 13 | 85910.88 | 167862.56 |
| 48 | 51204.29 | 59611.96 | 12 | 85895.99 | 167751.56 |
| 49 | 51229.27 | 59651.40 | 11 | 85881.09 | 167640.67 |
| 50 | 51254.25 | 59690.84 | 10 | 85866.18 | 167529.88 |
| 51 | 51279.22 | 59730.30 | 9 | 85851.27 | 167419.21 |
| 52 | 51304.20 | 59769.78 | 8 | 85836.35 | 167308.64 |
| 53 | 51329.16 | 59809.27 | 7 | 85821.42 | 167198.18 |
| 54 | 51354.12 | 59848.77 | 6 | 85806.49 | 167087.82 |
| 55 | 51379.08 | 59888.28 | 5 | 85791.55 | 166977.58 |
| 56 | 51404.04 | 59927.81 | 4 | 85776.60 | 166867.44 |
| 57 | 51428.99 | 59967.35 | 3 | 85761.64 | 166757.41 |
| 58 | 51453.93 | 60006.91 | 2 | 85746.68 | 166647.48 |
| 59 | 51478.87 | 60046.48 | 1 | 85731.71 | 166537.66 |
| 60 | 51503.81 | 60086.06 | 0 | 85716.73 | 166427.95 |

| Minut. | 31. Grad. Sinus. | Tang. | Minut. | 58. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 51503.81 | 60086.06 | 60 | 85716.73 | 166427.95 |
| 1 | 51528.74 | 60125.66 | 59 | 85701.74 | 166318.34 |
| 2 | 51553.67 | 60165.27 | 58 | 85686.75 | 166208.84 |
| 3 | 51578.59 | 60204.90 | 57 | 85671.75 | 166099.45 |
| 4 | 51603.51 | 60244.54 | 56 | 85656.74 | 165990.16 |
| 5 | 51628.42 | 60284.19 | 55 | 85641.73 | 165880.97 |
| 6 | 51653.33 | 60323.86 | 54 | 85626.71 | 165771.89 |
| 7 | 51678.24 | 60363.54 | 53 | 85611.68 | 165662.92 |
| 8 | 51703.14 | 60403.23 | 52 | 85596.64 | 165554.05 |
| 9 | 51728.04 | 60442.94 | 51 | 85581.60 | 165445.29 |
| 10 | 51752.93 | 60482.66 | 50 | 85566.55 | 165336.63 |
| 11 | 51777.82 | 60522.40 | 49 | 85551.49 | 165228.08 |
| 12 | 51802.70 | 60562.15 | 48 | 85536.43 | 165119.63 |
| 13 | 51827.58 | 60601.92 | 47 | 85521.35 | 165011.28 |
| 14 | 51852.46 | 60641.70 | 46 | 85506.27 | 164903.04 |
| 15 | 51877.33 | 60681.49 | 45 | 85491.19 | 164794.90 |
| 16 | 51902.19 | 60721.30 | 44 | 85476.09 | 164686.86 |
| 17 | 51927.05 | 60761.12 | 43 | 85460.99 | 164578.93 |
| 18 | 51951.91 | 60800.95 | 42 | 85445.88 | 164471.11 |
| 19 | 51976.76 | 60840.80 | 41 | 85430.77 | 164363.38 |
| 20 | 52001.61 | 60880.67 | 40 | 85415.64 | 164255.76 |
| 21 | 52026.46 | 60920.54 | 39 | 85400.51 | 164148.24 |
| 22 | 52051.30 | 60960.43 | 38 | 85385.38 | 164040.82 |
| 23 | 52076.13 | 61000.34 | 37 | 85370.23 | 163933.51 |
| 24 | 52100.96 | 61040.26 | 36 | 85355.08 | 163826.30 |
| 25 | 52125.79 | 61080.19 | 35 | 85339.92 | 163719.19 |
| 26 | 52150.61 | 61120.14 | 34 | 85324.75 | 163612.18 |
| 27 | 52175.43 | 61160.11 | 33 | 85309.58 | 163505.28 |
| 28 | 52200.24 | 61200.08 | 32 | 85294.40 | 163398.47 |
| 29 | 52225.05 | 61240.07 | 31 | 85279.21 | 163291.77 |
| 30 | 52249.86 | 61280.08 | 30 | 85264.02 | 163185.17 |

| Minut. | 31. Grad. Sinus. | Tang. | Minut. | 58. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 52249.86 | 61280.08 | 30 | 85264.02 | 163185.17 |
| 31 | 52274.66 | 61320.10 | 29 | 85248.81 | 163078.67 |
| 32 | 52299.45 | 61360.13 | 28 | 85233.60 | 162972.27 |
| 33 | 52324.24 | 61400.18 | 27 | 85218.39 | 162865.97 |
| 34 | 52349.03 | 61440.24 | 26 | 85203.16 | 162759.77 |
| 35 | 52373.81 | 61480.32 | 25 | 85187.93 | 162653.68 |
| 36 | 52398.59 | 61520.41 | 24 | 85172.69 | 162547.68 |
| 37 | 52423.36 | 61560.52 | 23 | 85157.45 | 162441.78 |
| 38 | 52448.13 | 61600.64 | 22 | 85142.19 | 162335.99 |
| 39 | 52472.90 | 61640.77 | 21 | 85126.93 | 162230.29 |
| 40 | 52497.66 | 61680.92 | 20 | 85111.67 | 162124.69 |
| 41 | 52522.41 | 61721.08 | 19 | 85096.39 | 162019.20 |
| 42 | 52547.16 | 61761.26 | 18 | 85081.11 | 161913.80 |
| 43 | 52571.91 | 61801.45 | 17 | 85065.82 | 161808.50 |
| 44 | 52596.65 | 61841.66 | 16 | 85050.53 | 161703.30 |
| 45 | 52621.39 | 61881.88 | 15 | 85035.22 | 161598.20 |
| 46 | 52646.13 | 61922.11 | 14 | 85019.91 | 161493.20 |
| 47 | 52670.85 | 61962.36 | 13 | 85004.59 | 161388.29 |
| 48 | 52695.58 | 62002.63 | 12 | 84989.27 | 161283.49 |
| 49 | 52720.30 | 62042.91 | 11 | 84973.94 | 161178.78 |
| 50 | 52745.02 | 62083.20 | 10 | 84958.60 | 161074.17 |
| 51 | 52769.73 | 62123.51 | 9 | 84943.25 | 160969.66 |
| 52 | 52794.43 | 62163.83 | 8 | 84927.90 | 160865.25 |
| 53 | 52819.14 | 62204.17 | 7 | 84912.54 | 160760.94 |
| 54 | 52843.83 | 62244.52 | 6 | 84897.17 | 160656.72 |
| 55 | 52868.53 | 62284.88 | 5 | 84881.79 | 160552.60 |
| 56 | 52893.22 | 62325.26 | 4 | 84866.41 | 160448.58 |
| 57 | 52917.90 | 62365.66 | 3 | 84851.02 | 160344.65 |
| 58 | 52942.58 | 62406.07 | 2 | 84835.62 | 160240.82 |
| 59 | 52967.26 | 62446.50 | 1 | 84820.22 | 160137.09 |
| 60 | 52991.93 | 62486.94 | 0 | 84804.81 | 160033.45 |

| Minut. | 32. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 52991.93 | 62486.94 |
| 1 | 53016.59 | 62527.39 |
| 2 | 53041.25 | 62567.86 |
| 3 | 53065.91 | 62608.34 |
| 4 | 53090.56 | 62648.84 |
| 5 | 53115.21 | 62689.35 |
| 6 | 53139.86 | 62729.88 |
| 7 | 53164.50 | 62770.42 |
| 8 | 53189.13 | 62810.98 |
| 9 | 53213.76 | 62851.56 |
| 10 | 53238.39 | 62892.15 |
| 11 | 53263.01 | 62932.75 |
| 12 | 53287.63 | 62973.36 |
| 13 | 53312.24 | 63013.99 |
| 14 | 53336.85 | 63054.64 |
| 15 | 53361.45 | 63095.30 |
| 16 | 53386.05 | 63135.98 |
| 17 | 53410.64 | 63176.67 |
| 18 | 53435.23 | 63217.38 |
| 19 | 53459.82 | 63258.10 |
| 20 | 53484.40 | 63298.83 |
| 21 | 53508.98 | 63339.58 |
| 22 | 53533.55 | 63380.35 |
| 23 | 53558.12 | 63421.13 |
| 24 | 53582.68 | 63461.93 |
| 25 | 53607.24 | 63502.74 |
| 26 | 53631.79 | 63543.57 |
| 27 | 53656.34 | 63584.41 |
| 28 | 53680.88 | 63625.27 |
| 29 | 53705.42 | 63666.14 |
| 30 | 53729.96 | 63707.03 |

| Minut. | 57. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 84804.81 | 160033.45 |
| 59 | 84789.39 | 159929.91 |
| 58 | 84773.97 | 159826.47 |
| 57 | 84758.53 | 159723.12 |
| 56 | 84743.09 | 159619.87 |
| 55 | 84727.65 | 159516.72 |
| 54 | 84712.19 | 159413.66 |
| 53 | 84696.73 | 159310.70 |
| 52 | 84681.26 | 159207.83 |
| 51 | 84665.79 | 159105.05 |
| 50 | 84650.30 | 159002.38 |
| 49 | 84634.81 | 158899.79 |
| 48 | 84619.32 | 158797.30 |
| 47 | 84603.81 | 158694.91 |
| 46 | 84588.30 | 158592.61 |
| 45 | 84572.78 | 158490.41 |
| 44 | 84557.26 | 158388.30 |
| 43 | 84541.72 | 158286.28 |
| 42 | 84526.18 | 158184.36 |
| 41 | 84510.63 | 158082.53 |
| 40 | 84495.08 | 157980.79 |
| 39 | 84479.52 | 157879.15 |
| 38 | 84463.95 | 157777.60 |
| 37 | 84448.37 | 157676.15 |
| 36 | 84432.79 | 157574.79 |
| 35 | 84417.20 | 157473.52 |
| 34 | 84401.60 | 157372.34 |
| 33 | 84386.00 | 157271.26 |
| 32 | 84370.39 | 157170.26 |
| 31 | 84354.77 | 157069.36 |
| 30 | 84339.14 | 156968.56 |

| Minut. | 32. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 53729.96 | 63707.03 |
| 31 | 53754.49 | 63747.93 |
| 32 | 53779.02 | 63788.85 |
| 33 | 53803.54 | 63829.78 |
| 34 | 53828.06 | 63870.73 |
| 35 | 53852.57 | 63911.69 |
| 36 | 53877.08 | 63952.67 |
| 37 | 53901.58 | 63993.66 |
| 38 | 53926.08 | 64034.67 |
| 39 | 53950.58 | 64075.69 |
| 40 | 53975.07 | 64116.73 |
| 41 | 53999.55 | 64157.79 |
| 42 | 54024.03 | 64198.86 |
| 43 | 54048.51 | 64239.95 |
| 44 | 54072.98 | 64281.05 |
| 45 | 54097.45 | 64322.16 |
| 46 | 54121.91 | 64363.29 |
| 47 | 54146.37 | 64404.44 |
| 48 | 54170.82 | 64445.60 |
| 49 | 54195.27 | 64486.78 |
| 50 | 54219.71 | 64527.97 |
| 51 | 54244.15 | 64569.18 |
| 52 | 54268.59 | 64610.41 |
| 53 | 54293.02 | 64651.65 |
| 54 | 54317.44 | 64692.90 |
| 55 | 54341.87 | 64734.17 |
| 56 | 54366.28 | 64775.46 |
| 57 | 54390.69 | 64816.76 |
| 58 | 54415.10 | 64858.08 |
| 59 | 54439.50 | 64899.41 |
| 60 | 54463.90 | 64940.76 |

| Minut. | 57. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 84339.14 | 156968.56 |
| 29 | 84323.51 | 156867.84 |
| 28 | 84307.87 | 156767.22 |
| 27 | 84292.22 | 156666.69 |
| 26 | 84276.57 | 156566.25 |
| 25 | 84260.91 | 156465.90 |
| 24 | 84245.24 | 156365.64 |
| 23 | 84229.56 | 156265.48 |
| 22 | 84213.88 | 156165.40 |
| 21 | 84198.19 | 156065.42 |
| 20 | 84182.49 | 155965.52 |
| 19 | 84166.79 | 155865.72 |
| 18 | 84151.08 | 155766.01 |
| 17 | 84135.36 | 155666.39 |
| 16 | 84119.63 | 155566.85 |
| 15 | 84103.90 | 155467.41 |
| 14 | 84088.16 | 155368.06 |
| 13 | 84072.41 | 155268.80 |
| 12 | 84056.66 | 155169.63 |
| 11 | 84040.90 | 155070.54 |
| 10 | 84025.13 | 154971.55 |
| 9 | 84009.35 | 154872.64 |
| 8 | 83993.57 | 154773.83 |
| 7 | 83977.78 | 154675.10 |
| 6 | 83961.99 | 154576.46 |
| 5 | 83946.18 | 154477.92 |
| 4 | 83930.37 | 154379.46 |
| 3 | 83914.55 | 154281.08 |
| 2 | 83898.73 | 154182.80 |
| 1 | 83882.90 | 154084.60 |
| 0 | 83867.06 | 153986.50 |

| Minut. | 33. Grad. Sinus. | Tang. |
|---|---|---|
| 0 | 54463.90 | 64940.76 |
| 1 | 54488.30 | 64982.12 |
| 2 | 54512.69 | 65023.50 |
| 3 | 54537.07 | 65064.90 |
| 4 | 54561.45 | 65106.31 |
| 5 | 54585.83 | 65147.74 |
| 6 | 54610.20 | 65189.18 |
| 7 | 54634.56 | 65230.64 |
| 8 | 54658.92 | 65272.11 |
| 9 | 54683.28 | 65313.60 |
| 10 | 54707.63 | 65355.11 |
| 11 | 54731.98 | 65396.63 |
| 12 | 54756.32 | 65438.17 |
| 13 | 54780.66 | 65479.72 |
| 14 | 54804.99 | 65521.29 |
| 15 | 54829.32 | 65562.87 |
| 16 | 54853 65 | 65604.47 |
| 17 | 54877.97 | 65646.09 |
| 18 | 54902 28 | 65687.72 |
| 19 | 54926.59 | 65729.37 |
| 20 | 54950.90 | 65771.03 |
| 21 | 54975.20 | 65812.71 |
| 22 | 54999.50 | 65854.41 |
| 23 | 55023.79 | 65896.12 |
| 24 | 55048.07 | 65937.85 |
| 25 | 55072.36 | 65979.59 |
| 26 | 55096.63 | 66021.35 |
| 27 | 55120.91 | 66063.13 |
| 28 | 55145.18 | 66104.92 |
| 29 | 55169.44 | 66146.73 |
| 30 | 55193.70 | 66188.55 |

| Minut. | 56. Grad. Sinus. | Tang. |
|---|---|---|
| 60 | 83867.06 | 153986.50 |
| 59 | 83851.21 | 153888.48 |
| 58 | 83835.36 | 153790.55 |
| 57 | 83819.50 | 153692.70 |
| 56 | 83803.63 | 153594.94 |
| 55 | 83787.75 | 153497.27 |
| 54 | 83771.87 | 153399.69 |
| 53 | 83755.98 | 153302.20 |
| 52 | 83740.08 | 153204.79 |
| 51 | 83724.18 | 153107.47 |
| 50 | 83708.27 | 153010.23 |
| 49 | 83692.36 | 152913.08 |
| 48 | 83676.43 | 152816.02 |
| 47 | 83660.50 | 152719.04 |
| 46 | 83644.56 | 152622.15 |
| 45 | 83628.62 | 152525.35 |
| 44 | 83612.66 | 152428.63 |
| 43 | 83596.70 | 152332.00 |
| 42 | 83580.74 | 152235.45 |
| 41 | 83564.76 | 152138.99 |
| 40 | 83548.78 | 152042.61 |
| 39 | 83532.79 | 151946.32 |
| 38 | 83516.80 | 151850.12 |
| 37 | 83500.80 | 151754.00 |
| 36 | 83484.79 | 151657.96 |
| 35 | 83468.77 | 151562.01 |
| 34 | 83452.75 | 151466.14 |
| 33 | 83436.72 | 151370.36 |
| 32 | 83420.68 | 151274.66 |
| 31 | 83404.63 | 151179.05 |
| 30 | 83388.58 | 151083.52 |

| Minut. | 55. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 55193.70 | 66188.56 |
| 31 | 55217.95 | 66230.40 |
| 32 | 55242.20 | 66272.26 |
| 33 | 55266.45 | 66314.13 |
| 34 | 55290.69 | 66356.02 |
| 35 | 55314.92 | 66397.92 |
| 36 | 55339.15 | 66439.84 |
| 37 | 55363.38 | 66481.78 |
| 38 | 55387.60 | 66523.73 |
| 39 | 55411.82 | 66565.70 |
| 40 | 55436.03 | 66607.69 |
| 41 | 55460.24 | 66649.69 |
| 42 | 55484.44 | 66691.71 |
| 43 | 55508.64 | 66733.75 |
| 44 | 55532.83 | 66775.80 |
| 45 | 55557.02 | 66817.87 |
| 46 | 55581.21 | 66859.95 |
| 47 | 55605.39 | 66902.05 |
| 48 | 55629.56 | 66944.17 |
| 49 | 55653.73 | 66986.30 |
| 50 | 55677.90 | 67028.45 |
| 51 | 55702.06 | 67070.62 |
| 52 | 55726.21 | 67112.80 |
| 53 | 55750.36 | 67155.00 |
| 54 | 55774.51 | 67197.21 |
| 55 | 55798.65 | 67239.44 |
| 56 | 55822.79 | 67281.69 |
| 57 | 55846.92 | 67323.96 |
| 58 | 55871.05 | 67366.24 |
| 59 | 55895.17 | 67408.54 |
| 60 | 55919.29 | 67450.85 |

| Minut. | 56. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 83388.58 | 151083.52 |
| 29 | 83372.52 | 150988.07 |
| 28 | 83356.46 | 150892.71 |
| 27 | 83340.38 | 150797.43 |
| 26 | 83324.30 | 150702.24 |
| 25 | 83308.22 | 150607.13 |
| 24 | 83292.12 | 150512.10 |
| 23 | 83276.02 | 150417.16 |
| 22 | 83259.91 | 150322.30 |
| 21 | 83243.80 | 150227.52 |
| 20 | 83227.68 | 150132.82 |
| 19 | 83211.55 | 150038.20 |
| 18 | 83195.41 | 149943.67 |
| 17 | 83179.27 | 149849.22 |
| 16 | 83163.12 | 149754.86 |
| 15 | 83146.96 | 149660.58 |
| 14 | 83130.80 | 149566.38 |
| 13 | 83114.62 | 149472.26 |
| 12 | 83098.45 | 149378.22 |
| 11 | 83082.26 | 149284.26 |
| 10 | 83066.07 | 149190.38 |
| 9 | 83049.87 | 149096.57 |
| 8 | 83033.66 | 149002.83 |
| 7 | 83017.45 | 148909.21 |
| 6 | 83001.23 | 148815.7 |
| 5 | 82985.00 | 148722.2 |
| 4 | 82968.77 | 148628.8 |
| 3 | 82952.52 | 148535. |
| 2 | 82936.28 | 148442. |
| 1 | 82920.02 | 148349. |
| 0 | 82903.76 | 148256. |

| Minut. | 54. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 55919.29 | 67450.85 |
| 1 | 55943.40 | 67493.18 |
| 2 | 55967.51 | 67535.53 |
| 3 | 55991.62 | 67577.90 |
| 4 | 56015.71 | 67620.28 |
| 5 | 56039.81 | 67662.68 |
| 6 | 56063.90 | 67705.09 |
| 7 | 56087.98 | 67747.52 |
| 8 | 56112.06 | 67789.97 |
| 9 | 56136.14 | 67832.44 |
| 10 | 56160.21 | 67874.92 |
| 11 | 56184.28 | 67917.42 |
| 12 | 56208.34 | 67959.93 |
| 13 | 56232.39 | 68002.46 |
| 14 | 56256.44 | 68045.01 |
| 15 | 56280.49 | 68087.58 |
| 16 | 56304.53 | 68130.16 |
| 17 | 56328.57 | 68172.76 |
| 18 | 56352.60 | 68215.38 |
| 19 | 56376.63 | 68258.01 |
| 20 | 56400.66 | 68300.66 |
| 21 | 56424.67 | 68343.33 |
| 22 | 56448.69 | 68386.01 |
| 23 | 56472.70 | 68428.71 |
| 24 | 56496.70 | 68471.43 |
| 25 | 56520.70 | 68514.17 |
| 26 | 56544.69 | 68556.92 |
| 27 | 56568.68 | 68599.69 |
| 28 | 56592.67 | 68642.47 |
| 29 | 56616.65 | 68685.27 |
| 30 | 56640.62 | 68728.10 |

| Minut. | 55. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 82903.76 | 148256.10 |
| 59 | 82887.49 | 148163.11 |
| 58 | 82871.21 | 148470.21 |
| 57 | 82854.93 | 147977.38 |
| 56 | 82838.64 | 147884.63 |
| 55 | 82822.34 | 147791.97 |
| 54 | 82806.03 | 147699.38 |
| 53 | 82789.72 | 147606.88 |
| 52 | 82773.40 | 147514.45 |
| 51 | 82757.07 | 147422.10 |
| 50 | 82740.74 | 147329.83 |
| 49 | 82724.40 | 147237.64 |
| 48 | 82708.06 | 147145.53 |
| 47 | 82691.70 | 147053.50 |
| 46 | 82675.34 | 146961.55 |
| 45 | 82658.97 | 146869.67 |
| 44 | 82642.60 | 146777.87 |
| 43 | 82626.22 | 146686.16 |
| 42 | 82609.83 | 146594.52 |
| 41 | 82593.43 | 146502.96 |
| 40 | 82577.03 | 146411.47 |
| 39 | 82560.62 | 146320.07 |
| 38 | 82544.20 | 146228.74 |
| 37 | 82527.78 | 146137.49 |
| 36 | 82511.35 | 146046.32 |
| 35 | 82494.91 | 145955.22 |
| 34 | 82478.47 | 145864.20 |
| 33 | 82462.02 | 145773.26 |
| 32 | 82445.56 | 145682.40 |
| 31 | 82429.09 | 145591.61 |
| 30 | 82412.62 | 145500.90 |

| Minut. | 34. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 56640.62 | 68728.10 |
| 31 | 56664.59 | 68770.94 |
| 32 | 56688.56 | 68813.79 |
| 33 | 56712.52 | 68856.66 |
| 34 | 56736.48 | 68899.55 |
| 35 | 56760.43 | 68942.46 |
| 36 | 56784.37 | 68985.38 |
| 37 | 56808.32 | 69028.32 |
| 38 | 56832.25 | 69071.28 |
| 39 | 56856.18 | 69114.25 |
| 40 | 56880.11 | 69157.24 |
| 41 | 56904.03 | 69200.25 |
| 42 | 56927.95 | 69243.28 |
| 43 | 56951.86 | 69286.33 |
| 44 | 56975.77 | 69329.39 |
| 45 | 56999.68 | 69372.47 |
| 46 | 57023.57 | 69415.57 |
| 47 | 57047.47 | 69458.68 |
| 48 | 57071.36 | 69501.81 |
| 49 | 57095.24 | 69544.96 |
| 50 | 57119.12 | 69588.13 |
| 51 | 57142.99 | 69631.31 |
| 52 | 57166.86 | 69674.51 |
| 53 | 57190.73 | 69717.73 |
| 54 | 57214.59 | 69760.97 |
| 55 | 57238.44 | 69804.22 |
| 56 | 57262.29 | 69847.49 |
| 57 | 57286.14 | 69890.78 |
| 58 | 57309.98 | 69934.09 |
| 59 | 57333.81 | 69977.41 |
| 60 | 57357.64 | 70020.75 |

| Minut. | 55. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 82412.62 | 145500.90 |
| 29 | 82396.14 | 145410.27 |
| 28 | 82379.65 | 145319.71 |
| 27 | 82363.16 | 145229.23 |
| 26 | 82346.66 | 145138.83 |
| 25 | 82330.15 | 145048.50 |
| 24 | 82313.64 | 144958.25 |
| 23 | 82297.12 | 144868.08 |
| 22 | 82280.59 | 144777.98 |
| 21 | 82264.05 | 144687.96 |
| 20 | 82247.51 | 144598.01 |
| 19 | 82230.96 | 144508.14 |
| 18 | 82214.40 | 144418.34 |
| 17 | 82197.84 | 144328.62 |
| 16 | 82181.27 | 144238.97 |
| 15 | 82164.69 | 144149.40 |
| 14 | 82148.11 | 144059.91 |
| 13 | 82131.52 | 143970.49 |
| 12 | 82114.92 | 143881.14 |
| 11 | 82098.32 | 143791.87 |
| 10 | 82081.70 | 143702.68 |
| 9 | 82065.08 | 143613.56 |
| 8 | 82048.46 | 143524.51 |
| 7 | 82031.83 | 143435.54 |
| 6 | 82015.19 | 143346.64 |
| 5 | 81998.54 | 143257.81 |
| 4 | 81981.89 | 143169.06 |
| 3 | 81965.23 | 143080.39 |
| 2 | 81948.56 | 142991.78 |
| 1 | 81931.89 | 142903.26 |
| 0 | 81915.20 | 142814.80 |

| Minut. | 53. Grad. | | Minut. | 54. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 57357.64 | 70020.75 | 60 | 81915.20 | 142814.80 |
| 1 | 57381.47 | 70064.11 | 59 | 81898.52 | 142726.42 |
| 2 | 57405.29 | 70107.49 | 58 | 81881.82 | 142638.11 |
| 3 | 57429.11 | 70150.89 | 57 | 81865.12 | 142549.87 |
| 4 | 57452.92 | 70194.30 | 56 | 81848.41 | 142461.71 |
| 5 | 57476.72 | 70237.73 | 55 | 81831.69 | 142373.62 |
| 6 | 57500.52 | 70281.18 | 54 | 81814.97 | 142285.61 |
| 7 | 57524.32 | 70324.65 | 53 | 81798.24 | 142197.66 |
| 8 | 57548.11 | 70368.13 | 52 | 81781.50 | 142109.79 |
| 9 | 57571.90 | 70411.63 | 51 | 81764.76 | 142022.00 |
| 10 | 57595.68 | 70455.15 | 50 | 81748.01 | 141934.27 |
| 11 | 57619.46 | 70498.69 | 49 | 81731.25 | 141846.62 |
| 12 | 57643.23 | 70542.24 | 48 | 81714.49 | 141759.04 |
| 13 | 57667.00 | 70585.81 | 47 | 81697.72 | 141671.53 |
| 14 | 57690.76 | 70629.40 | 46 | 81680.94 | 141584.09 |
| 15 | 57714.52 | 70673.01 | 45 | 81664.15 | 141496.73 |
| 16 | 57738.27 | 70716.64 | 44 | 81647.36 | 141409.43 |
| 17 | 57762.02 | 70760.29 | 43 | 81630.56 | 141322.21 |
| 18 | 57785.76 | 70803.95 | 42 | 81613.76 | 141235.06 |
| 19 | 57809.50 | 70847.63 | 41 | 81596.95 | 141147.99 |
| 20 | 57833.23 | 70891.33 | 40 | 81580.13 | 141060.98 |
| 21 | 57856.96 | 70935.05 | 39 | 81563.30 | 140974.05 |
| 22 | 57880.68 | 70978.78 | 38 | 81546.47 | 140887.18 |
| 23 | 57904.40 | 71022.53 | 37 | 81529.63 | 140800.39 |
| 24 | 57928.12 | 71066.30 | 36 | 81512.78 | 140713.67 |
| 25 | 57951.83 | 71110.09 | 35 | 81495.93 | 140627.02 |
| 26 | 57975.53 | 71153.90 | 34 | 81479.06 | 140540.44 |
| 27 | 57999.23 | 71197.73 | 33 | 81462.20 | 140453.93 |
| 28 | 58022.92 | 71241.57 | 32 | 81445.32 | 140367.49 |
| 29 | 58046.61 | 71285.43 | 31 | 81428.44 | 140281.13 |
| 30 | 58070.30 | 71329.31 | 30 | 81411.55 | 140194.83 |

| Minut. | 35. Grad. | | Minut. | 54. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 58070.30 | 71329.31 | 30 | 81411.55 | 140194.83 |
| 31 | 58093.97 | 71373.21 | 29 | 81394.65 | 140108.60 |
| 32 | 58117.65 | 71417.13 | 28 | 81377.75 | 140022.45 |
| 33 | 58141.32 | 71461.06 | 27 | 81360.84 | 139936.36 |
| 34 | 58164.98 | 71505.01 | 26 | 81343.93 | 139850.34 |
| 35 | 58188.64 | 71548.98 | 25 | 81327.01 | 139764.40 |
| 36 | 58212.30 | 71592.97 | 24 | 81310.08 | 139678.52 |
| 37 | 58235.95 | 71636.98 | 23 | 81293.14 | 139592.72 |
| 38 | 58259.59 | 71681.01 | 22 | 81276.20 | 139506.98 |
| 39 | 58283.23 | 71725.05 | 21 | 81259.25 | 139421.31 |
| 40 | 58306.87 | 71769.11 | 20 | 81242.29 | 139335.71 |
| 41 | 58330.50 | 71813.19 | 19 | 81225.32 | 139250.18 |
| 42 | 58354.12 | 71857.29 | 18 | 81208.35 | 139164.73 |
| 43 | 58377.74 | 71901.41 | 17 | 81191.37 | 139079.34 |
| 44 | 58401.36 | 71945.55 | 16 | 81174.39 | 138994.01 |
| 45 | 58424.97 | 71989.70 | 15 | 81157.40 | 138908.76 |
| 46 | 58448.57 | 72033.87 | 14 | 81140.40 | 138823.58 |
| 47 | 58472.17 | 72078.06 | 13 | 81123.39 | 138738.46 |
| 48 | 58495.77 | 72122.27 | 12 | 81106.38 | 138653.42 |
| 49 | 58519.36 | 72166.50 | 11 | 81089.36 | 138568.44 |
| 50 | 58542.94 | 72210.75 | 10 | 81072.34 | 138483.53 |
| 51 | 58566.52 | 72255.02 | 9 | 81055.30 | 138398.69 |
| 52 | 58590.10 | 72299.31 | 8 | 81038.26 | 138313.92 |
| 53 | 58613.67 | 72343.61 | 7 | 81021.22 | 138229.22 |
| 54 | 58637.24 | 72387.93 | 6 | 81004.16 | 138144.58 |
| 55 | 58660.80 | 72432.27 | 5 | 80987.10 | 138060.01 |
| 56 | 58684.35 | 72476.63 | 4 | 80970.04 | 137975.51 |
| 57 | 58707.90 | 72521.01 | 3 | 80952.96 | 137891.08 |
| 58 | 58731.45 | 72565.41 | 2 | 80935.88 | 137806.72 |
| 59 | 58754.99 | 72609.83 | 1 | 80918.79 | 137722.42 |
| 60 | 58778.53 | 72654.26 | 0 | 80901.70 | 137638.19 |

| Minut. | 36. Grad. | | Minut. | 53. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 58778.53 | 72654.26 | 60 | 80901.70 | 137638.19 |
| 1 | 58802.06 | 72698.71 | 59 | 80884.60 | 137554.03 |
| 2 | 58825.58 | 72743.18 | 58 | 80867.49 | 137469.94 |
| 3 | 58849.10 | 72787.67 | 57 | 80850.37 | 137385.91 |
| 4 | 58872.62 | 72832.18 | 56 | 80833.25 | 137301.95 |
| 5 | 58896.13 | 72876.71 | 55 | 80816.12 | 137218.05 |
| 6 | 58919.64 | 72921.26 | 54 | 80798.99 | 137134.23 |
| 7 | 58943.14 | 72965.82 | 53 | 80781.85 | 137050.47 |
| 8 | 58966.63 | 73010.40 | 52 | 80764.70 | 136966.78 |
| 9 | 58990.12 | 73055.01 | 51 | 80747.54 | 136883.15 |
| 10 | 59013.61 | 73099.63 | 50 | 80730.38 | 136799.59 |
| 11 | 59037.09 | 73144.27 | 49 | 80713.21 | 136716.10 |
| 12 | 59060.57 | 73188.94 | 48 | 80696.03 | 136632.67 |
| 13 | 59084.04 | 73233.62 | 47 | 80678.85 | 136549.31 |
| 14 | 59107.50 | 73278.31 | 46 | 80661.66 | 136466.02 |
| 15 | 59130.96 | 73323.03 | 45 | 80644.46 | 136382.79 |
| 16 | 59154.42 | 73367.77 | 44 | 80627.26 | 136299.63 |
| 17 | 59177.87 | 73412.53 | 43 | 80610.05 | 136216.53 |
| 18 | 59201.32 | 73457.30 | 42 | 80592.83 | 136133.50 |
| 19 | 59224.76 | 73502.10 | 41 | 80575.60 | 136050.54 |
| 20 | 59248.19 | 73546.91 | 40 | 80558.37 | 135967.64 |
| 21 | 59271.63 | 73591.74 | 39 | 80541.13 | 135884.81 |
| 22 | 59295.05 | 73636.60 | 38 | 80523.89 | 135802.04 |
| 23 | 59318.47 | 73681.47 | 37 | 80506.64 | 135719.34 |
| 24 | 59341.89 | 73726.36 | 36 | 80469.38 | 135636.70 |
| 25 | 59365.30 | 73771.27 | 35 | 80472.11 | 135554.13 |
| 26 | 59388.71 | 73816.20 | 34 | 80454.84 | 135471.62 |
| 27 | 59412.11 | 73861.15 | 33 | 80437.56 | 135389.18 |
| 28 | 59435.50 | 73906.11 | 32 | 80420.28 | 135306.80 |
| 29 | 59458.89 | 73951.10 | 31 | 80402.99 | 135224.49 |
| 30 | 59482.28 | 73996.11 | 30 | 80385.69 | 135142.24 |

| Minut. | 36. Grad. | | Minut. | 53. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 59482.28 | 73996.11 | 30 | 80385.69 | 135142.24 |
| 31 | 59505.66 | 74041.14 | 29 | 80368.38 | 135060.06 |
| 32 | 59529.03 | 74086.18 | 28 | 80351.07 | 134977.94 |
| 33 | 59552.40 | 74131.24 | 27 | 80333.75 | 134895.89 |
| 34 | 59575.77 | 74176.33 | 26 | 80316.42 | 134813.90 |
| 35 | 59599.13 | 74221.43 | 25 | 80299.09 | 134731.97 |
| 36 | 59622.49 | 74266.55 | 24 | 80281.75 | 134650.11 |
| 37 | 59645.84 | 74311.70 | 23 | 80264.40 | 134568.32 |
| 38 | 59669.18 | 74356.86 | 22 | 80247.05 | 134486.58 |
| 39 | 59692.52 | 74402.04 | 21 | 80229.69 | 134404.92 |
| 40 | 59715.86 | 74447.24 | 20 | 80212.32 | 134323.31 |
| 41 | 59739.19 | 74492.46 | 19 | 80194.94 | 134241.77 |
| 42 | 59762.51 | 74537.70 | 18 | 80177.56 | 134160.29 |
| 43 | 59785.83 | 74582.96 | 17 | 80160.17 | 134078.88 |
| 44 | 59809.15 | 74628.24 | 16 | 80142.78 | 133997.53 |
| 45 | 59832.46 | 74673.54 | 15 | 80125.38 | 133916.24 |
| 46 | 59855.76 | 74718.86 | 14 | 80107.97 | 133835.02 |
| 47 | 59879.06 | 74764.20 | 13 | 80090.56 | 133753.86 |
| 48 | 59902.36 | 74809.56 | 12 | 80073.14 | 133672.76 |
| 49 | 59925.65 | 74854.94 | 11 | 80055.71 | 133591.72 |
| 50 | 59948.93 | 74900.33 | 10 | 80038.27 | 133510.75 |
| 51 | 59972.21 | 74945.75 | 9 | 80020.83 | 133429.84 |
| 52 | 59995.49 | 74991.19 | 8 | 80003.38 | 133349.00 |
| 53 | 60018.76 | 75036.65 | 7 | 79985.93 | 133268.22 |
| 54 | 60042.02 | 75082.12 | 6 | 79968.47 | 133187.49 |
| 55 | 60065.28 | 75127.62 | 5 | 79951.00 | 133106.84 |
| 56 | 60088.53 | 75173.14 | 4 | 79933.52 | 133026.24 |
| 57 | 60111.78 | 75218.67 | 3 | 79916.04 | 132945.71 |
| 58 | 60135.03 | 75264.23 | 2 | 79898.55 | 132865.24 |
| 59 | 60158.27 | 75309.81 | 1 | 79881.05 | 132784.83 |
| 60 | 60181.50 | 75355.40 | 0 | 79863.55 | 132704.48 |

| Minut. | 37. Grad. Sinus. | Tang. | Minut. | 52. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 60181.50 | 75355.40 | 60 | 79865.55 | 132704.48 |
| 1 | 60204.73 | 75401.02 | 59 | 79846.04 | 132624.20 |
| 2 | 60227.95 | 75446.66 | 58 | 79828.52 | 132543.97 |
| 3 | 60251.17 | 75492.32 | 57 | 79811.00 | 132463.81 |
| 4 | 60274 39 | 75537.99 | 56 | 79793.47 | 132383.71 |
| 5 | 60297.60 | 75583.69 | 55 | 79775.94 | 132303.68 |
| 6 | 60320.80 | 75629.41 | 54 | 79758.39 | 132223.70 |
| 7 | 60344.00 | 75675.14 | 53 | 79740.84 | 132143.79 |
| 8 | 60367.19 | 75720.90 | 52 | 79723.29 | 132063.93 |
| 9 | 60390.38 | 75766.68 | 51 | 79705.72 | 131984.14 |
| 10 | 60413.56 | 75812.48 | 50 | 79688.15 | 131904.41 |
| 11 | 60436.74 | 75858.29 | 49 | 79670.57 | 131824.74 |
| 12 | 60459.91 | 75904.13 | 48 | 79652.99 | 131745.13 |
| 13 | 60483.08 | 75949.99 | 47 | 79635.40 | 131665.59 |
| 14 | 60506.24 | 75995.87 | 46 | 79617.80 | 131586.10 |
| 15 | 60529.40 | 76041.77 | 45 | 79600.20 | 131506.68 |
| 16 | 60552.55 | 76087.69 | 44 | 79582.59 | 131427.31 |
| 17 | 60575.70 | 76133.63 | 43 | 79564.97 | 131348.01 |
| 18 | 60598.84 | 76179.59 | 42 | 79547.35 | 131268.76 |
| 19 | 60621.98 | 76225.57 | 41 | 79529.72 | 131189.58 |
| 20 | 60645.11 | 76271.57 | 40 | 79512.08 | 131110.46 |
| 21 | 60668.23 | 76317.59 | 39 | 79494.43 | 131031.40 |
| 22 | 60691.36 | 76363.63 | 38 | 79476.78 | 130952.39 |
| 23 | 60714.47 | 76409.69 | 37 | 79459.13 | 130873.45 |
| 24 | 60737.58 | 76455.77 | 36 | 79441.46 | 130794.57 |
| 25 | 60760.69 | 76501.88 | 35 | 79423.79 | 130715.75 |
| 26 | 60783.79 | 76548.00 | 34 | 79406.11 | 130636.99 |
| 27 | 60806.89 | 76594.14 | 33 | 79388.43 | 130558.28 |
| 28 | 60829.98 | 76640.31 | 32 | 79370.74 | 130479.64 |
| 29 | 60853.06 | 76686.49 | 31 | 79353.04 | 130401.06 |
| 30 | 60876.14 | 76732.70 | 30 | 79335.33 | 130322.54 |

| Minut. | 37. Grad. Sinus. | Tang. | Minut. | 52. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 60876.14 | 76732.70 | 30 | 79335.33 | 130322.54 |
| 31 | 60899.22 | 76778.93 | 29 | 79317.62 | 130244.07 |
| 32 | 60922.29 | 76825.17 | 28 | 79299.90 | 130165.67 |
| 33 | 60945.35 | 76871.44 | 27 | 79282.18 | 130087.32 |
| 34 | 60968.41 | 76917.73 | 26 | 79264.45 | 130009.04 |
| 35 | 60991.47 | 76964.04 | 25 | 79246.71 | 129930.81 |
| 36 | 61014.52 | 77010.37 | 24 | 79228.96 | 129852.65 |
| 37 | 61037.56 | 77056.72 | 23 | 79211.21 | 129774.54 |
| 38 | 61060.60 | 77103.09 | 22 | 79193.45 | 129696.49 |
| 39 | 61083.63 | 77149.48 | 21 | 79175.69 | 129618.50 |
| 40 | 61106.66 | 77195.89 | 20 | 79157.92 | 129540.57 |
| 41 | 61129.69 | 77242.33 | 19 | 79140.14 | 129462.69 |
| 42 | 61152.70 | 77288.79 | 18 | 79122.35 | 129384.88 |
| 43 | 61175.72 | 77335.26 | 17 | 79104.56 | 129307.12 |
| 44 | 61198.73 | 77381.75 | 16 | 79086.76 | 129229.43 |
| 45 | 61221.73 | 77428.27 | 15 | 79068.96 | 129151.79 |
| 46 | 61244.73 | 77474.81 | 14 | 79051.15 | 129074.21 |
| 47 | 61267.72 | 77521.37 | 13 | 79033.33 | 128996.69 |
| 48 | 61290.71 | 77567.95 | 12 | 79015.50 | 128919.22 |
| 49 | 61313.69 | 77614.55 | 11 | 78997.67 | 128841.82 |
| 50 | 61336.66 | 77661.17 | 10 | 78979.83 | 128764.47 |
| 51 | 61359.64 | 77707.82 | 9 | 78961.98 | 128687.18 |
| 52 | 61382.60 | 77754.48 | 8 | 78944.13 | 128609.95 |
| 53 | 61405.56 | 77801.17 | 7 | 78926.27 | 128532.77 |
| 54 | 61428.52 | 77847.88 | 6 | 78908.41 | 128455.66 |
| 55 | 61451.47 | 77894.60 | 5 | 78890.54 | 128378.60 |
| 56 | 61474.42 | 77941.35 | 4 | 78872.66 | 128301.60 |
| 57 | 61497.36 | 77988.12 | 3 | 78854.77 | 128224.66 |
| 58 | 61520.29 | 78034.92 | 2 | 78836.88 | 128147.76 |
| 59 | 61543.22 | 78081.73 | 1 | 78818.98 | 128078.93 |
| 60 | 61566.15 | 78128.56 | 0 | 78801.08 | 127994.16 |

| Minut. | 38. Grad. | | Minut. | 51. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 61566.15 | 78128.56 | 60 | 78801.08 | 127994.16 |
| 1 | 61589.07 | 78175.42 | 59 | 78783.16 | 127917.45 |
| 2 | 61611.98 | 78222.29 | 58 | 78765.24 | 127840.79 |
| 3 | 61634.89 | 78269.19 | 57 | 78747.32 | 127764.19 |
| 4 | 61657.79 | 78316.11 | 56 | 78729.39 | 127687.64 |
| 5 | 61680.69 | 78363.05 | 55 | 78711.45 | 127611.16 |
| 6 | 61703.59 | 78410.02 | 54 | 78693.50 | 127534.73 |
| 7 | 61726.48 | 78457.00 | 53 | 78675.55 | 127458.36 |
| 8 | 61749.36 | 78504.00 | 52 | 78657.59 | 127382.04 |
| 9 | 61772.24 | 78551.03 | 51 | 78639.63 | 127305.78 |
| 10 | 61795.11 | 78598.08 | 50 | 78621.65 | 127229.57 |
| 11 | 61817.98 | 78645.15 | 49 | 78603.67 | 127153.42 |
| 12 | 61840.84 | 78692.24 | 48 | 78585.69 | 127077.33 |
| 13 | 61863.70 | 78739.35 | 47 | 78567.70 | 127001.30 |
| 14 | 61886.55 | 78786.49 | 46 | 78549.70 | 126925.32 |
| 15 | 61909.39 | 78833.64 | 45 | 78531.69 | 126849.39 |
| 16 | 61932.24 | 78880.82 | 44 | 78513.68 | 126773.53 |
| 17 | 61955.07 | 78928.02 | 43 | 78495.66 | 126697.72 |
| 18 | 61977.90 | 78975.24 | 42 | 78477.64 | 126621.96 |
| 19 | 62000.73 | 79022.48 | 41 | 78459.61 | 126546.26 |
| 20 | 62023.55 | 79069.75 | 40 | 78441.57 | 126470.62 |
| 21 | 62046.36 | 79117.03 | 39 | 78423.52 | 126395.03 |
| 22 | 62069.17 | 79164.34 | 38 | 78405.47 | 126319.50 |
| 23 | 62091.98 | 79211.67 | 37 | 78387.41 | 126244.02 |
| 24 | 62114.78 | 79259.02 | 36 | 78369.35 | 126168.60 |
| 25 | 62137.57 | 79306.40 | 35 | 78351.27 | 126093.23 |
| 26 | 62160.36 | 79353.79 | 34 | 78333.20 | 126017.92 |
| 27 | 62183.14 | 79401.21 | 33 | 78315.11 | 125942.67 |
| 28 | 62205.92 | 79448.65 | 32 | 78297.02 | 125867.47 |
| 29 | 62228.70 | 79496.11 | 31 | 78278.92 | 125792.32 |
| 30 | 62251.46 | 79543.59 | 30 | 78260.82 | 125717.23 |

| Minut. | 38. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 62251.46 | 79543.59 |
| 31 | 62274.23 | 79591.10 |
| 32 | 62296.98 | 79638.62 |
| 33 | 62319.73 | 79686.17 |
| 34 | 62342.48 | 79733.74 |
| 35 | 62365.22 | 79781.34 |
| 36 | 62387.96 | 79828.95 |
| 37 | 62410.69 | 79876.59 |
| 38 | 62433.42 | 79924.25 |
| 39 | 62456.14 | 79971.93 |
| 40 | 62478.85 | 80019.63 |
| 41 | 62501.56 | 80067.36 |
| 42 | 62524.27 | 80115.11 |
| 43 | 62546.96 | 80162.88 |
| 44 | 62569.66 | 80210.67 |
| 45 | 62592.35 | 80258.48 |
| 46 | 62615.03 | 80306.32 |
| 47 | 62637.71 | 80354.18 |
| 48 | 62660.38 | 80402.06 |
| 49 | 62683.05 | 80449.97 |
| 50 | 62705.71 | 80497.90 |
| 51 | 62728.37 | 80545.85 |
| 52 | 62751.02 | 80593.82 |
| 53 | 62773.66 | 80641.81 |
| 54 | 62796.31 | 80689.83 |
| 55 | 62818.94 | 80737.87 |
| 56 | 62841.57 | 80785.93 |
| 57 | 62864.20 | 80834.01 |
| 58 | 62886.82 | 80882.12 |
| 59 | 62909.43 | 80930.25 |
| 60 | 62932.04 | 80978.40 |

| Minut. | 51. Grad. Sinus. | Tang. |
|---|---|---|
| 30 | 78260.82 | 125717.23 |
| 29 | 78242.70 | 125642.19 |
| 28 | 78224.59 | 125567.21 |
| 27 | 78206.46 | 125492.29 |
| 26 | 78188.33 | 125417.42 |
| 25 | 78170.19 | 125342.60 |
| 24 | 78152.05 | 125267.84 |
| 23 | 78133.90 | 125193.13 |
| 22 | 78115.74 | 125118.48 |
| 21 | 78097.57 | 125043.88 |
| 20 | 78079.40 | 124969.33 |
| 19 | 78061.22 | 124894.84 |
| 18 | 78043.04 | 124820.40 |
| 17 | 78024.85 | 124746.02 |
| 16 | 78006.65 | 124671.69 |
| 15 | 77988.45 | 124597.42 |
| 14 | 77970.24 | 124523.20 |
| 13 | 77952.02 | 124449.03 |
| 12 | 77933.80 | 124374.92 |
| 11 | 77915.57 | 124300.86 |
| 10 | 77897.33 | 124226.85 |
| 9 | 77879.08 | 124152.90 |
| 8 | 77860.83 | 124079.00 |
| 7 | 77842.58 | 124005.15 |
| 6 | 77824.31 | 123931.36 |
| 5 | 77806.04 | 123857.62 |
| 4 | 77787.77 | 123783.93 |
| 3 | 77769.49 | 123710.30 |
| 2 | 77751.20 | 123636.72 |
| 1 | 77732.90 | 123563.19 |
| 0 | 77714.60 | 123489.72 |

| Minut. | 39. Grad. | | Minut. | 50. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 62932.04 | 80978.40 | 60 | 77714.60 | 123489.72 |
| 1 | 62954.64 | 81026.58 | 59 | 77696.29 | 123416.29 |
| 2 | 62977.24 | 81074.78 | 58 | 77677.97 | 123342.92 |
| 3 | 62999.83 | 81123.00 | 57 | 77659.65 | 123269.61 |
| 4 | 63022.42 | 81171.24 | 56 | 77641.32 | 123196.34 |
| 5 | 63045.00 | 81219.51 | 55 | 77622.98 | 123123.13 |
| 6 | 63067.58 | 81267.80 | 54 | 77604.64 | 123049.97 |
| 7 | 63090.15 | 81316.11 | 53 | 77586.29 | 122976.87 |
| 8 | 63112.72 | 81364.44 | 52 | 77567.94 | 122903.81 |
| 9 | 63135.28 | 81412.80 | 51 | 77549.57 | 122830.81 |
| 10 | 63157.84 | 81461.18 | 50 | 77531.21 | 122757.86 |
| 11 | 63180.39 | 81509.58 | 49 | 77512.83 | 122684.96 |
| 12 | 63202.93 | 81558.01 | 48 | 77494.45 | 122612.11 |
| 13 | 63225.47 | 81606.46 | 47 | 77476.06 | 122539.32 |
| 14 | 63248.00 | 81654.93 | 46 | 77457.67 | 122466.58 |
| 15 | 63270.53 | 81703.43 | 45 | 77439.26 | 122393.89 |
| 16 | 63293.06 | 81751.95 | 44 | 77420.86 | 122321.25 |
| 17 | 63315.57 | 81800.49 | 43 | 77402.44 | 122248.66 |
| 18 | 63338.09 | 81849.05 | 42 | 77384.02 | 122176.13 |
| 19 | 63360.59 | 81897.64 | 41 | 77365.59 | 122103.64 |
| 20 | 63383.10 | 81946.25 | 40 | 77347.16 | 122031.21 |
| 21 | 63405.59 | 81994.88 | 39 | 77328.72 | 121958.83 |
| 22 | 63428.08 | 82043.54 | 38 | 77310.27 | 121886.50 |
| 23 | 63450.57 | 82092.22 | 37 | 77291.82 | 121814.22 |
| 24 | 63473.05 | 82140.93 | 36 | 77273.36 | 121741.99 |
| 25 | 63495.53 | 82189.65 | 35 | 77254.89 | 121669.82 |
| 26 | 63518.00 | 82238.40 | 34 | 77236.42 | 121597.69 |
| 27 | 63540.46 | 82287.18 | 33 | 77217.94 | 121525.62 |
| 28 | 63562.92 | 82335.97 | 32 | 77199.45 | 121453.59 |
| 29 | 63585.37 | 82384.79 | 31 | 77180.96 | 121381.62 |
| 30 | 63607.82 | 82433.64 | 30 | 77162.46 | 121309.70 |

| Minut. | 39. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 63607.82 | 82433.64 |
| 31 | 63630.26 | 82482.51 |
| 32 | 63652.70 | 82531.40 |
| 33 | 63675.13 | 82580.31 |
| 34 | 63697.56 | 82629.25 |
| 35 | 63719.98 | 82678.21 |
| 36 | 63742.40 | 82727.19 |
| 37 | 63764.81 | 82776.20 |
| 38 | 63787.21 | 82825.23 |
| 39 | 63809.61 | 82874.29 |
| 40 | 63832.01 | 82923.37 |
| 41 | 63854.40 | 82972.47 |
| 42 | 63876.78 | 83021.60 |
| 43 | 63899.16 | 83070.75 |
| 44 | 63921.53 | 83119.92 |
| 45 | 63943.90 | 83169.12 |
| 46 | 63966.26 | 83218.34 |
| 47 | 63988.62 | 83267.59 |
| 48 | 64010.97 | 83316.86 |
| 49 | 64033.32 | 83366.15 |
| 50 | 64055.66 | 83415.47 |
| 51 | 64077.99 | 83464.81 |
| 52 | 64100.32 | 83514.18 |
| 53 | 64122.64 | 83563.57 |
| 54 | 64144.96 | 83612.98 |
| 55 | 64167.28 | 83662.42 |
| 56 | 64189.58 | 83711.88 |
| 57 | 64211.89 | 83761.36 |
| 58 | 64234.18 | 83810.87 |
| 59 | 64256.47 | 83860.40 |
| 60 | 64278.76 | 83909.96 |

| Minut. | 50. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 77162.46 | 121309.70 |
| 29 | 77143.95 | 121237.83 |
| 28 | 77125.44 | 121166.01 |
| 27 | 77106.92 | 121094.24 |
| 26 | 77088.39 | 121022.52 |
| 25 | 77069.86 | 120950.85 |
| 24 | 77051.32 | 120879.23 |
| 23 | 77032.78 | 120807.67 |
| 22 | 77014.23 | 120736.15 |
| 21 | 76995.67 | 120664.68 |
| 20 | 76977.10 | 120593.27 |
| 19 | 76958.53 | 120521.90 |
| 18 | 76939.95 | 120450.58 |
| 17 | 76921.37 | 120379.31 |
| 16 | 76902.78 | 120308.10 |
| 15 | 76884.18 | 120236.93 |
| 14 | 76865.58 | 120165.81 |
| 13 | 76846.97 | 120094.75 |
| 12 | 76828.35 | 120023.73 |
| 11 | 76809.73 | 119952.76 |
| 10 | 76791.10 | 119881.84 |
| 9 | 76772.46 | 119810.97 |
| 8 | 76753.82 | 119740.15 |
| 7 | 76735.17 | 119669.38 |
| 6 | 76716.51 | 119598.66 |
| 5 | 76697.85 | 119527.99 |
| 4 | 76679.18 | 119457.36 |
| 3 | 76660.51 | 119386.79 |
| 2 | 76641.83 | 119316.26 |
| 1 | 76623.14 | 119245.79 |
| 0 | 76604.44 | 119175.36 |

| Minut. | 40. Grad. | | Minut. | 49. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 64278.76 | 83909.96 | 60 | 76604.44 | 119175.36 |
| 1 | 64301.04 | 83959.54 | 59 | 76585.74 | 119104.98 |
| 2 | 64323.32 | 84009.15 | 58 | 76567.03 | 119034.65 |
| 3 | 64345.59 | 84058.78 | 57 | 76548.32 | 118964.37 |
| 4 | 64367.85 | 84108.44 | 56 | 76529.60 | 118894.14 |
| 5 | 64390.11 | 84158.12 | 55 | 76510.87 | 118823.95 |
| 6 | 64412.36 | 84207.82 | 54 | 76492.14 | 118753.82 |
| 7 | 64434.61 | 84257.55 | 53 | 76473.40 | 118683.73 |
| 8 | 64456.85 | 84307.30 | 52 | 76454.65 | 118613.69 |
| 9 | 64479.09 | 84357.08 | 51 | 76435.90 | 118543.70 |
| 10 | 64501.32 | 84406.88 | 50 | 76417.14 | 118473.76 |
| 11 | 64523.55 | 84456.70 | 49 | 76398.37 | 118403.87 |
| 12 | 64545.77 | 84506.55 | 48 | 76379.60 | 118334.02 |
| 13 | 64567.98 | 84556.43 | 47 | 76360.82 | 118264.22 |
| 14 | 64590.19 | 84606.33 | 46 | 76342.04 | 118194.47 |
| 15 | 64612.40 | 84656.25 | 45 | 76323.25 | 118124.77 |
| 16 | 64634.60 | 84706.20 | 44 | 76304.45 | 118055.12 |
| 17 | 64656.79 | 84756.17 | 43 | 76285.64 | 117985.51 |
| 18 | 64678.98 | 84806.17 | 42 | 76266.83 | 117915.95 |
| 19 | 64701.16 | 84856.19 | 41 | 76248.01 | 117846.44 |
| 20 | 64723.34 | 84906.24 | 40 | 76229.19 | 117776.98 |
| 21 | 64745.51 | 84956.31 | 39 | 76210.36 | 117707.56 |
| 22 | 64767.67 | 85006.40 | 38 | 76191.52 | 117638.20 |
| 23 | 64789.83 | 85056.52 | 37 | 76172.68 | 117568.88 |
| 24 | 64811.99 | 85106.67 | 36 | 76153.83 | 117499.60 |
| 25 | 64834.14 | 85156.84 | 35 | 76134.97 | 117430.38 |
| 26 | 64856.28 | 85207.04 | 34 | 76116.11 | 117361.20 |
| 27 | 64878.42 | 85257.26 | 33 | 76097.24 | 117292.07 |
| 28 | 64900.55 | 85307.50 | 32 | 76078.37 | 117222.98 |
| 29 | 64922.68 | 85357.77 | 31 | 76059.49 | 117153.95 |
| 30 | 64944.80 | 85408.07 | 30 | 76040.60 | 117084.96 |

| Minut. | 40. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 64944.80 | 85408.07 |
| 31 | 64966.92 | 85458.39 |
| 32 | 64989.03 | 85508.73 |
| 33 | 65011.14 | 85559.10 |
| 34 | 65033.24 | 85609.50 |
| 35 | 65055.33 | 85659.92 |
| 36 | 65077.42 | 85710.37 |
| 37 | 65099.50 | 85760.84 |
| 38 | 65121.58 | 85811.33 |
| 39 | 65143.66 | 85861.85 |
| 40 | 65165.72 | 85912.40 |
| 41 | 65187.78 | 85962.97 |
| 42 | 65209.84 | 86013.57 |
| 43 | 65231.89 | 86064.19 |
| 44 | 65253.94 | 86114.84 |
| 45 | 65275.98 | 86165.51 |
| 46 | 65298.01 | 86216.21 |
| 47 | 65320.04 | 86266.93 |
| 48 | 65342.06 | 86317.68 |
| 49 | 65364.08 | 86368.46 |
| 50 | 65386.09 | 86419.26 |
| 51 | 65408.10 | 86470.09 |
| 52 | 65430.10 | 86520.94 |
| 53 | 65452.09 | 86571.81 |
| 54 | 65474.08 | 86622.71 |
| 55 | 65496.06 | 86673.64 |
| 56 | 65518.04 | 86724.60 |
| 57 | 65540.02 | 86775.58 |
| 58 | 65561.98 | 86826.59 |
| 59 | 65583.95 | 86877.62 |
| 60 | 65605.90 | 86928.68 |

| Minut. | 49. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 76040.60 | 117084.96 |
| 29 | 76021.70 | 117016.01 |
| 28 | 76002.80 | 116947.12 |
| 27 | 75983.89 | 116878.27 |
| 26 | 75964.98 | 116809.47 |
| 25 | 75946.06 | 116740.71 |
| 24 | 75927.13 | 116672.00 |
| 23 | 75908.20 | 116603.34 |
| 22 | 75889.26 | 116534.72 |
| 21 | 75870.31 | 116466.15 |
| 20 | 75851.36 | 116397.63 |
| 19 | 75832.40 | 116329.16 |
| 18 | 75813.43 | 116260.73 |
| 17 | 75794.46 | 116192.34 |
| 16 | 75775.48 | 116124.00 |
| 15 | 75756.50 | 116055.71 |
| 14 | 75737.51 | 115987.47 |
| 13 | 75718.51 | 115919.27 |
| 12 | 75699.51 | 115851.11 |
| 11 | 75680.49 | 115783.01 |
| 10 | 75661.48 | 115714.95 |
| 9 | 75642.45 | 115646.93 |
| 8 | 75623.42 | 115578.96 |
| 7 | 75604.39 | 115511.04 |
| 6 | 75585.35 | 115443.16 |
| 5 | 75566.30 | 115375.32 |
| 4 | 75547.24 | 115307.54 |
| 3 | 75528.18 | 115239.79 |
| 2 | 75509.11 | 115172.10 |
| 1 | 75490.04 | 115104.45 |
| 0 | 75470.96 | 115036.84 |

| Minut. | 41. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 65605.90 | 86928.68 |
| 1 | 65627.85 | 86979.76 |
| 2 | 65649.80 | 87030.87 |
| 3 | 65671.74 | 87082.00 |
| 4 | 65693.67 | 87133.16 |
| 5 | 65715.60 | 87184.35 |
| 6 | 65737.52 | 87235.56 |
| 7 | 65759.44 | 87286.80 |
| 8 | 65781.35 | 87338.06 |
| 9 | 65803.26 | 87389.35 |
| 10 | 65825.16 | 87440.67 |
| 11 | 65847.06 | 87492.01 |
| 12 | 65868.95 | 87543.38 |
| 13 | 65890.83 | 87594.78 |
| 14 | 65912.71 | 87646.20 |
| 15 | 65934.58 | 87697.65 |
| 16 | 65956.45 | 87749.12 |
| 17 | 65978.31 | 87800.62 |
| 18 | 66000.17 | 87852.15 |
| 19 | 66022.02 | 87903.70 |
| 20 | 66043.86 | 87955.28 |
| 21 | 66065.70 | 88006.89 |
| 22 | 66087.54 | 88058.52 |
| 23 | 66109.36 | 88110.18 |
| 24 | 66131.19 | 88161.86 |
| 25 | 66153.00 | 88213.57 |
| 26 | 66174.81 | 88265.31 |
| 27 | 66196.62 | 88317.07 |
| 28 | 66218.42 | 88368.86 |
| 29 | 66240.22 | 88420.68 |
| 30 | 66262.00 | 88472.53 |

| Minut. | 48. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 75470.96 | 115036.84 |
| 59 | 75451.87 | 114969.28 |
| 58 | 75432.78 | 114901.76 |
| 57 | 75413.68 | 114834.29 |
| 56 | 75394.57 | 114766.87 |
| 55 | 75375.46 | 114699.49 |
| 54 | 75356.34 | 114632.15 |
| 53 | 75337.21 | 114564.86 |
| 52 | 75318.08 | 114497.62 |
| 51 | 75298.94 | 114430.41 |
| 50 | 75279.80 | 114363.26 |
| 49 | 75260.65 | 114296.15 |
| 48 | 75241.49 | 114229.08 |
| 47 | 75222.33 | 114162.06 |
| 46 | 75203.16 | 114095.08 |
| 45 | 75183.98 | 114028.15 |
| 44 | 75164.80 | 113961.26 |
| 43 | 75145.61 | 113894.41 |
| 42 | 75126.41 | 113827.61 |
| 41 | 75107.21 | 113760.85 |
| 40 | 75088.00 | 113694.14 |
| 39 | 75068.79 | 113627.47 |
| 38 | 75049.57 | 113560.85 |
| 37 | 75030.34 | 113494.27 |
| 36 | 75011.11 | 113427.73 |
| 35 | 74991.87 | 113361.24 |
| 34 | 74972.62 | 113294.79 |
| 33 | 74953.37 | 113228.39 |
| 32 | 74934.11 | 113162.03 |
| 31 | 74914.84 | 113095.71 |
| 30 | 74895.57 | 113029.44 |

| Minut. | 41. Grad. Sinus. | Tang. | Minut. | 48. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 66262.00 | 88472.53 | 30 | 74895.57 | 113029.44 |
| 31 | 66283.79 | 88524.40 | 29 | 74876.29 | 112963.21 |
| 32 | 66305.57 | 88576.30 | 28 | 74857.01 | 112897.02 |
| 33 | 66327.34 | 88628.22 | 27 | 74837.72 | 112830.88 |
| 34 | 66349.10 | 88680.17 | 26 | 74818.42 | 112764.78 |
| 35 | 66370.87 | 88732.15 | 25 | 74799.12 | 112698.72 |
| 36 | 66392.62 | 88784.16 | 24 | 74779.81 | 112632.71 |
| 37 | 66414.37 | 88836.20 | 23 | 74760.49 | 112566.74 |
| 38 | 66436.11 | 88888.26 | 22 | 74741.17 | 112500.81 |
| 39 | 66457.85 | 88940.34 | 21 | 74721.84 | 112434.93 |
| 40 | 66479.59 | 88992.45 | 20 | 74702.51 | 112369.09 |
| 41 | 66501.31 | 89044.59 | 19 | 74683.17 | 112303.29 |
| 42 | 66523.04 | 89096.75 | 18 | 74663.82 | 112237.54 |
| 43 | 66544.75 | 89148.94 | 17 | 74644.46 | 112171.83 |
| 44 | 66566.46 | 89201.16 | 16 | 74625.10 | 112106.16 |
| 45 | 66588.17 | 89253.41 | 15 | 74605.74 | 112040.53 |
| 46 | 66609.87 | 89305.69 | 14 | 74586.36 | 111974.95 |
| 47 | 66631.56 | 89357.99 | 13 | 74566.99 | 111909.41 |
| 48 | 66653.25 | 89410.32 | 12 | 74547.60 | 111843.91 |
| 49 | 66674.93 | 89462.68 | 11 | 74528.21 | 111778.46 |
| 50 | 66696.61 | 89515.06 | 10 | 74508.81 | 111713.05 |
| 51 | 66718.28 | 89567.47 | 9 | 74489.41 | 111647.68 |
| 52 | 66739.94 | 89619.91 | 8 | 74469.99 | 111582.35 |
| 53 | 66761.60 | 89672.38 | 7 | 74450.58 | 111517.06 |
| 54 | 66783.26 | 89724.87 | 6 | 74431.15 | 111451.82 |
| 55 | 66804.90 | 89777.39 | 5 | 74411.72 | 111386.62 |
| 56 | 66826.55 | 89829.94 | 4 | 74392.29 | 111321.46 |
| 57 | 66848.18 | 89882.52 | 3 | 74372.85 | 111256.35 |
| 58 | 66869.81 | 89935.12 | 2 | 74353.40 | 111191.27 |
| 59 | 66891.44 | 89987.75 | 1 | 74333.94 | 111126.24 |
| 60 | 66913.06 | 90040.41 | 0 | 74314.48 | 111061.25 |

| Minut. | 42. Grad. | | Minut. | 47. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 0 | 66913.06 | 90040.41 | 60 | 74314.48 | 111061.25 |
| 1 | 66934.67 | 90093.09 | 59 | 74295.01 | 110996.30 |
| 2 | 66956.28 | 90145.80 | 58 | 74275.54 | 110931.40 |
| 3 | 66977.89 | 90198.54 | 57 | 74256.06 | 110866.53 |
| 4 | 66999.48 | 90251.31 | 56 | 74236.57 | 110801.71 |
| 5 | 67021.08 | 90304.11 | 55 | 74217.08 | 110736.93 |
| 6 | 67042.66 | 90356.94 | 54 | 74197.58 | 110672.19 |
| 7 | 67064.24 | 90409.79 | 53 | 74178.08 | 110607.50 |
| 8 | 67085.82 | 90462.67 | 52 | 74158.57 | 110542.84 |
| 9 | 67107.39 | 90515.58 | 51 | 74139.05 | 110478.23 |
| 10 | 67128.95 | 90568.51 | 50 | 74119.53 | 110413.65 |
| 11 | 67150.51 | 90621.47 | 49 | 74100.00 | 110349.12 |
| 12 | 67172.06 | 90674.46 | 48 | 74080.46 | 110284.63 |
| 13 | 67193.61 | 90727.48 | 47 | 74060.92 | 110220.19 |
| 14 | 67215.15 | 90780.53 | 46 | 74041.37 | 110155.78 |
| 15 | 67236.68 | 90833.60 | 45 | 74021.81 | 110091.41 |
| 16 | 67258.21 | 90886.71 | 44 | 74002.25 | 110027.09 |
| 17 | 67279.73 | 90939.84 | 43 | 73982.68 | 109962.81 |
| 18 | 67301.25 | 90993.00 | 42 | 73963.11 | 109898.56 |
| 19 | 67322.76 | 91046.19 | 41 | 73943.53 | 109834.36 |
| 20 | 67344.27 | 91099.41 | 40 | 73923.94 | 109770.20 |
| 21 | 67365.77 | 91152.65 | 39 | 73904.35 | 109706.08 |
| 22 | 67387.27 | 91205.92 | 38 | 73884.75 | 109642.01 |
| 23 | 67408.76 | 91259.22 | 37 | 73865.15 | 109577.97 |
| 24 | 67430.24 | 91312.55 | 36 | 73845.53 | 109513.97 |
| 25 | 67451.72 | 91365.91 | 35 | 73825.92 | 109450.02 |
| 26 | 67473.19 | 91419.29 | 34 | 73806.29 | 109386.10 |
| 27 | 67494.66 | 91472.70 | 33 | 73786.66 | 109322.23 |
| 28 | 67516.12 | 91526.15 | 32 | 73767.02 | 109258.40 |
| 29 | 67537.57 | 91579.62 | 31 | 73747.38 | 109194.60 |
| 30 | 67559.02 | 91633.12 | 30 | 73727.73 | 109130.85 |

| Minut. | 42. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 67559.02 | 91633.12 |
| 31 | 67580.46 | 91686.65 |
| 32 | 67601.90 | 91740.20 |
| 33 | 67623.33 | 91793.79 |
| 34 | 67644.76 | 91847.40 |
| 35 | 67666.18 | 91901.04 |
| 36 | 67687.60 | 91954.71 |
| 37 | 67709.01 | 92008.41 |
| 38 | 67730.41 | 92062.14 |
| 39 | 67751.81 | 92115.90 |
| 40 | 67773.20 | 92169.68 |
| 41 | 67794.59 | 92223.50 |
| 42 | 67815.97 | 92277.34 |
| 43 | 67837.34 | 92331.22 |
| 44 | 67858.71 | 92385.12 |
| 45 | 67880.07 | 92439.05 |
| 46 | 67901.43 | 92493.01 |
| 47 | 67922.78 | 92547.00 |
| 48 | 67944.13 | 92601.01 |
| 49 | 67965.47 | 92655.06 |
| 50 | 97986.81 | 92709.14 |
| 51 | 68008.13 | 92763.24 |
| 52 | 68029.46 | 92817.38 |
| 53 | 68050.78 | 92871.54 |
| 54 | 68072.09 | 92925.73 |
| 55 | 68093.39 | 92979.96 |
| 56 | 68114.69 | 93034.21 |
| 57 | 68135.99 | 93088.49 |
| 58 | 68157.28 | 93142.80 |
| 59 | 68178.56 | 93197.14 |
| 60 | 68199.84 | 93251.51 |

| Minut. | 47. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 30 | 73727.73 | 109130.85 |
| 29 | 73708.08 | 109067.14 |
| 28 | 73688.42 | 109003.47 |
| 27 | 73668.75 | 108939.83 |
| 26 | 73649.07 | 108876.24 |
| 25 | 73629.39 | 108812.69 |
| 24 | 73609.71 | 108749.18 |
| 23 | 73590.02 | 108685.71 |
| 22 | 73570.32 | 108622.28 |
| 21 | 73550.61 | 108558.89 |
| 20 | 73530.90 | 108495.54 |
| 19 | 73511.18 | 108432.23 |
| 18 | 73491.46 | 108368.96 |
| 17 | 73471.73 | 108305.73 |
| 16 | 73451.99 | 108242.54 |
| 15 | 73432.25 | 108179.39 |
| 14 | 73412.50 | 108116.28 |
| 13 | 73392.75 | 108053.21 |
| 12 | 73372.99 | 107990.18 |
| 11 | 73353.22 | 107927.18 |
| 10 | 73333.45 | 107864.23 |
| 9 | 73313.67 | 107801.32 |
| 8 | 73293.88 | 107738.44 |
| 7 | 73274.09 | 107675.61 |
| 6 | 73254.29 | 107612.82 |
| 5 | 73234.48 | 107550.06 |
| 4 | 73214.67 | 107487.34 |
| 3 | 73194.86 | 107424.67 |
| 2 | 73175.03 | 107362.03 |
| 1 | 73155.21 | 107299.43 |
| 0 | 73135.37 | 107236.87 |

| Minut. | 45. Grad. Sinus. | Tang. | Minut. | 46. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 0 | 68199.84 | 93251.51 | 60 | 73135.37 | 107236.87 |
| 1 | 68221.11 | 93305.91 | 59 | 73115.53 | 107174.35 |
| 2 | 68242.37 | 93360.34 | 58 | 73095.68 | 107111.87 |
| 3 | 68263.63 | 93414.79 | 57 | 73075.83 | 107049.43 |
| 4 | 68284.89 | 93469.28 | 56 | 73055.97 | 106987.02 |
| 5 | 68306.13 | 93523.80 | 55 | 73036.10 | 106924.66 |
| 6 | 68327.38 | 93578.34 | 54 | 73016.23 | 106862.33 |
| 7 | 68348.61 | 93632.92 | 53 | 72996.35 | 106800.04 |
| 8 | 68369.84 | 93687.53 | 52 | 72976.46 | 106737.79 |
| 9 | 68391.07 | 93742.16 | 51 | 72956.57 | 106675.58 |
| 10 | 68412.29 | 93796.83 | 50 | 72936.68 | 106613.41 |
| 11 | 68433.50 | 93851.52 | 49 | 72916.77 | 106551.28 |
| 12 | 68454.71 | 93906.25 | 48 | 72896.86 | 106489.18 |
| 13 | 68475.91 | 93961.01 | 47 | 72876.95 | 106427.13 |
| 14 | 68497.11 | 94015.79 | 46 | 72857.02 | 106365.11 |
| 15 | 68518.30 | 94070.61 | 45 | 72837.10 | 106303.13 |
| 16 | 68539.48 | 94125.45 | 44 | 72817.16 | 106241.19 |
| 17 | 68560.66 | 94180.33 | 43 | 72797.22 | 106179.29 |
| 18 | 68581.83 | 94235.23 | 42 | 72777.28 | 106117.42 |
| 19 | 68603.00 | 94290.17 | 41 | 72757.32 | 106055.60 |
| 20 | 68624.16 | 94355.13 | 40 | 72737.36 | 105993.81 |
| 21 | 68645.32 | 94400.13 | 39 | 72717.40 | 105932.06 |
| 22 | 68666.47 | 94455.16 | 38 | 72697.43 | 105870.34 |
| 23 | 68687.61 | 94510.21 | 37 | 72677.45 | 105808.67 |
| 24 | 68708.75 | 94565.30 | 36 | 72657 47 | 105747.03 |
| 25 | 68729.88 | 94620.42 | 35 | 72637.48 | 105685.44 |
| 26 | 68751.01 | 94675.56 | 34 | 72617.48 | 105623.88 |
| 27 | 68772.13 | 94730.74 | 33 | 72597.48 | 105562.35 |
| 28 | 68793.24 | 94785.95 | 32 | 72577.47 | 105500.87 |
| 29 | 68814.35 | 94841.19 | 31 | 72557.46 | 105439.42 |
| 30 | 68835.46 | 94896.46 | 30 | 72537.44 | 105378.01 |

| Minut. | 43. Grad. | | Minut. | 46. Grad. | |
|---|---|---|---|---|---|
| | Sinus. | Tang. | | Sinus. | Tang. |
| 30 | 68835.46 | 94896.46 | 30 | 72537.44 | 105378.01 |
| 31 | 68856.55 | 94951.76 | 29 | 72517.41 | 105316.64 |
| 32 | 68877.65 | 95007.09 | 28 | 72497.38 | 105255.31 |
| 33 | 68898.73 | 95062.45 | 27 | 72473.47 | 105194.01 |
| 34 | 68919.81 | 95117.84 | 26 | 72457.29 | 105132.75 |
| 35 | 68940.89 | 95173.26 | 25 | 72437.24 | 105071.53 |
| 36 | 68961.95 | 95228.71 | 24 | 72417.18 | 105010.34 |
| 37 | 68983.02 | 95284.20 | 23 | 72397.12 | 104949.20 |
| 38 | 69004.07 | 95339.71 | 22 | 72377.05 | 104888.09 |
| 39 | 69025.12 | 95395.26 | 21 | 72356.98 | 104827.02 |
| 40 | 69046.17 | 95450.83 | 20 | 72336.90 | 104765.98 |
| 41 | 69067.21 | 95506.44 | 19 | 72316.81 | 104704.98 |
| 42 | 69088.24 | 95562.08 | 18 | 72296.71 | 104644.02 |
| 43 | 69109.27 | 95617.74 | 17 | 72276.61 | 104583.10 |
| 44 | 69130.29 | 95673.44 | 16 | 72256.51 | 104522.21 |
| 45 | 69151.31 | 95729.17 | 15 | 72236.40 | 104461.36 |
| 46 | 69172.32 | 95784.94 | 14 | 72216.28 | 104400.55 |
| 47 | 69193.32 | 95840.73 | 13 | 72196.15 | 104339.77 |
| 48 | 69214.32 | 95896.55 | 12 | 72176.02 | 104279.04 |
| 49 | 69235.31 | 95952.41 | 11 | 72155.89 | 104218.33 |
| 50 | 69256.30 | 96008.29 | 10 | 72135.74 | 104157.67 |
| 51 | 69277.28 | 96064.21 | 9 | 72115.59 | 104097.04 |
| 52 | 69298.25 | 96120.16 | 8 | 72095.44 | 104036.45 |
| 53 | 69319.22 | 96176.14 | 7 | 72075.28 | 103975.89 |
| 54 | 69340.18 | 96232.15 | 6 | 72055.11 | 103915.37 |
| 55 | 69361.14 | 96288.19 | 5 | 72034.94 | 103854.89 |
| 56 | 69382.09 | 96344.27 | 4 | 72014.76 | 103794.45 |
| 57 | 69403.04 | 96400.37 | 3 | 71994.57 | 103734.04 |
| 58 | 69423.98 | 96456.51 | 2 | 71974.38 | 103673.67 |
| 59 | 69444.91 | 96512.68 | 1 | 71954.18 | 103613.33 |
| 60 | 69465.84 | 96568.88 | 0 | 71933.98 | 103553.03 |

| Minut. | 44. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 0 | 69465.84 | 96568.88 |
| 1 | 69486.76 | 96625.11 |
| 2 | 69507.67 | 96681.37 |
| 3 | 69528.58 | 96737.67 |
| 4 | 69549.49 | 96794.00 |
| 5 | 69570.39 | 96850.35 |
| 6 | 69591.28 | 96906.74 |
| 7 | 69612.17 | 96963.16 |
| 8 | 69633.05 | 97019.62 |
| 9 | 69653.92 | 97076.10 |
| 10 | 69674.79 | 97132.62 |
| 11 | 69695.65 | 97189.17 |
| 12 | 69716.51 | 97245.75 |
| 13 | 69737.36 | 97302.36 |
| 14 | 69758.21 | 97359.01 |
| 15 | 69779.05 | 97415.69 |
| 16 | 69799.88 | 97472.40 |
| 17 | 69820.71 | 97529.14 |
| 18 | 69841.53 | 97585.91 |
| 19 | 69862.34 | 97642.72 |
| 20 | 69883.15 | 97699.56 |
| 21 | 69903.96 | 97756.43 |
| 22 | 69924.76 | 97813.33 |
| 23 | 69945.55 | 97870.27 |
| 24 | 69966.33 | 97927.24 |
| 25 | 69987.11 | 97984.24 |
| 26 | 70007.89 | 98041.27 |
| 27 | 70028.66 | 98098.33 |
| 28 | 70049.42 | 98155.43 |
| 29 | 70070.18 | 98212.56 |
| 30 | 70090.93 | 98269.73 |

| Minut. | 45. Grad. | |
|---|---|---|
| | Sinus. | Tang. |
| 60 | 71933.98 | 103553.03 |
| 59 | 71913.77 | 103492.77 |
| 58 | 71893.55 | 103432.54 |
| 57 | 71873.33 | 103372.35 |
| 56 | 71853.10 | 103312.20 |
| 55 | 71832.87 | 103252.08 |
| 54 | 71812.63 | 103191.99 |
| 53 | 71792.38 | 103131.95 |
| 52 | 71772.13 | 103071.94 |
| 51 | 71751.87 | 103011.96 |
| 50 | 71731.61 | 102952.03 |
| 49 | 71711.34 | 102892.12 |
| 48 | 71691.06 | 102832.26 |
| 47 | 71670.78 | 102772.43 |
| 46 | 71650.49 | 102712.63 |
| 45 | 71630.19 | 102652.87 |
| 44 | 71609.89 | 102593.15 |
| 43 | 71589.59 | 102533.46 |
| 42 | 71569.27 | 102473.81 |
| 41 | 71548.95 | 102414.19 |
| 40 | 71528.63 | 102354.61 |
| 39 | 71508.30 | 102295.06 |
| 38 | 71487.96 | 102235.55 |
| 37 | 71467.62 | 102176.08 |
| 36 | 71447.27 | 102116.64 |
| 35 | 71426.91 | 102057.23 |
| 34 | 71406.55 | 101997.86 |
| 33 | 71386.18 | 101938.53 |
| 32 | 71365.81 | 101879.23 |
| 31 | 71345.43 | 101819.97 |
| 30 | 71325.04 | 101760.74 |

| Minut. | 44. Grad. Sinus. | Tang. | Minut. | 45. Grad. Sinus. | Tang. |
|---|---|---|---|---|---|
| 30 | 70090.93 | 98269.73 | 30 | 71325.04 | 101760.74 |
| 31 | 70111.67 | 98326.92 | 29 | 71304.65 | 101701.55 |
| 32 | 70132.41 | 98384.15 | 28 | 71284.26 | 101642.39 |
| 33 | 70153.14 | 98441.41 | 27 | 71263.85 | 101583.26 |
| 34 | 70173.87 | 98498.71 | 26 | 71243.44 | 101524.17 |
| 35 | 70194.59 | 98556.03 | 25 | 71223.03 | 101465.12 |
| 36 | 70215.30 | 98613.39 | 24 | 71202.60 | 101406.10 |
| 37 | 70236.01 | 98670.79 | 23 | 71182.18 | 101347.12 |
| 38 | 70256.72 | 98728.21 | 22 | 71161.74 | 101288.17 |
| 39 | 70277.41 | 98785.67 | 21 | 71141.30 | 101229.25 |
| 40 | 70298.11 | 98843.16 | 20 | 71120.86 | 101170.37 |
| 41 | 70318.79 | 98900.69 | 19 | 71100.41 | 101111.53 |
| 42 | 70339.47 | 98958.25 | 18 | 71079.95 | 101052.72 |
| 43 | 70360.14 | 99015.84 | 17 | 71059.48 | 100993.94 |
| 44 | 70380.81 | 99073.46 | 16 | 71039.01 | 100935.20 |
| 45 | 70401.47 | 99131.12 | 15 | 71018.54 | 100876.49 |
| 46 | 70422.13 | 99188.81 | 14 | 70998.06 | 100817.82 |
| 47 | 70442.78 | 99246.54 | 13 | 70977.57 | 100759.18 |
| 48 | 70463.42 | 99304.29 | 12 | 70957.07 | 100700.58 |
| 49 | 70484.06 | 99362.08 | 11 | 70936.57 | 100642.01 |
| 50 | 70504.69 | 99419.91 | 10 | 70916.07 | 100583.47 |
| 51 | 70525.32 | 99477.77 | 9 | 70895.56 | 100524.97 |
| 52 | 70545.94 | 99535.66 | 8 | 70875.04 | 100466.51 |
| 53 | 70566.55 | 99593.58 | 7 | 70854.51 | 100408.07 |
| 54 | 70587.16 | 99651.54 | 6 | 70833.98 | 100349.68 |
| 55 | 70607.76 | 99709.53 | 5 | 70813.45 | 100291.31 |
| 56 | 70628.35 | 99767.56 | 4 | 70792.91 | 100232.98 |
| 57 | 70648.94 | 99825.62 | 3 | 70772.36 | 100174.69 |
| 58 | 70669.53 | 99883.71 | 2 | 70751.80 | 100116.42 |
| 59 | 70690.11 | 99941.84 | 1 | 70731.24 | 100058.19 |
| 60 | 70710.68 | 100000.00 | 0 | 70710.68 | 100000.00 |